

Docket No. SAIC0010-US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

Raulf M. Polichar, et al

Art Unit: 1765

Serial No. 09/736,157

Examiner: Not Assigned

Filed: December 15, 2000

For: **PIN ALLOY-SEMICONDUCTOR, RADIATION DETECTORS WITH RECTIFYING JUNCTION CONTACTS, METHODS AND SYSTEMS FOR FORMING PIN ALLOY-SEMICONDUCTOR DEVICES WITH RECTIFYING JUNCTION CONTACTS, AND SYSTEMS AND METHODS FOR ANALYZING ALLOY-SEMICONDUCTOR PROPERTIES**

TRANSMITTAL OF STATEMENT RESPONDING TO REQUEST FOR STATEMENT UNDER § 152 OF THE ATOMIC ENERGY ACT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Responsive to the to the Requirement for Statement under § 152 of the Atomic Energy Act dated June 7, 2001, in the application identified above, an appropriate Statement is submitted herewith.

If any fees are required in connection with the filing of this response, the Commissioner is hereby authorized to charge the same to the Deposit Account no. 501458. A copy of this correspondence is provided for this purpose.

Respectfully submitted,

Richard T. Peterson
Registration No. 35,320

Date: 7/6/01
KILPATRICK STOCKTON LLP
700 13th Street, N.W., Suite 800
Washington, D.C. 20005
(202) 508-5800

Docket No

TC 1700 MAIL ROOM

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HMT (152)
9/25/01

Attorney Docket No. SAIC-0010



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
RAULF POLICHAR ET AL.

Serial No. 09/736,157

Filed: December 15, 2000

Title: PIN ALLOY SEMICONDUCTOR,
RADIATION DETECTORS
WITH RECTIFYING JUNCTION
CONTACTS, METHODS AND
SYSTEMS FOR FORMING PIN
ALLOY-SEMICONDUCTOR
DEVICES WITH RECTIFYING
JUNCTION CONTACTS, AND
SYSTEMS AND METHODS FOR
ANALYZING ALLOY
SEMICONDUCTOR
PROPERTIES

Examiner: Unassigned

Art Unit: 0000

STATEMENT RESPONDING TO REQUEST FOR
STATEMENT UNDER § 152 OF THE ATOMIC ENERGY ACT

The Commissioner of Patents and Trademarks
Washington, D.C. 20231
Attention: Licensing and Review

Sir:

Responsive to the Requirement for Statement under § 152 of the Atomic
Energy Act dated June 7, 2001, in the application identified above, applicants state as
follows:

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*Statement of the Full Facts Surrounding the Making or Conception of
the Invention or Discovery Described in the Application*

The inventors' name are Raulf M. Polichar and Kuo-Tong Chen. Dr. Polichar is a U.S. citizen, residing at 7371 Player Drive, San Diego, CA 92119. Dr. Chen is a citizen of Taiwan and is a U.S. resident alien, residing at 5183 Pearlman Way, San Diego, CA 92130. Dr. Polichar and Dr. Chen are researchers employed by Science Application International Corporation (SAIC). As part of their employment at SAIC, Dr. Polichar and Dr. Chen undertook a research investigation regarding the formation of rectifying junction contacts on alloy-semiconductors using photo-electrochemical etching, the use of such alloy-semiconductor devices with rectifying junction contacts in PIN ionization detector devices, and systems and methods for revealing surface morphology of such alloy-semiconductors. Further, as a result of that research, Dr. Polichar and Dr. Chen made and conceived the invention described and claimed in the above-referenced patent application.

Prior to the applicants' invention, the external formation of P- and N-type contacts on CdTe and CdZnTe for Positive-Intermediate-Negative (PIN) devices was known. However, these conventional methods suffer from several shortcomings. First, these prior methods all involve sophisticated vacuum deposition equipment. This necessarily entails that production of semiconductor devices using such methods are

expensive and difficult. Second, these conventional methods also require high temperature heating during formation of the contacts, which heating can cause degradation of semiconductor's material properties. Third, because the metal used in the metal deposition process may be impure, the semiconductor device can become contaminated during the metal deposition process. Fourth, it is possible that the interface between the deposited metal and semiconductor device may have an oxide layer that can degrade device performance.

Given the task of developing an improved system and method for forming rectifying junction contacts in PIN alloy-semiconductor devices, Dr. Polichar and Dr. Chen developed the process and apparatus which is described and claimed in the above-referenced patent application. Specifically, the present invention provides a means of creating rectifying junction contacts on alloy-semiconductor devices such as CdTe and CdZnTe, among others. In addition, the present invention also provides a simple and low cost method for revealing wafer surface morphology of alloy-semiconductors, thus providing an efficient and effective means for selecting single grain semiconductor substrates. Further, the present invention provides nuclear detectors employing such alloy-semiconductor devices having improved rectifying junctions as the detector element.

Dr. Polichar and Dr. Chen made and conceived this invention while employed by SAIC. The invention is related to work that Dr. Polichar and Dr. Chen are employed to perform and was made within the scope of their employment duties. The invention was made during working hours and with the use of facilities, equipment, materials, funds, information and services of SAIC. At the time of the invention, and in the two years prior to the conception of the present invention, neither Dr. Polichar nor Dr. Chen were operating any contract, subcontract, or arrangement entered into with or for the benefit of the United States Atomic Energy Commission or its successors: Energy Research and Development Administration or the Department of Energy.

*Existence of Contract, Subcontract, or Arrangement Entered into
with or for the Benefit of the Energy Research and Development
Administration or the Department of Energy*

The invention or discovery described and claimed in the above-referenced patent application was not made or conceived in the course of, or in connection with, or under any contract, subcontract, or arrangement entered into with or for the benefit of the United States Atomic Energy Commission or its successors: Energy Research and Development Administration or the Department of Energy.

Mention of Radiation Detector Is Not Sufficient Grounds for the Present Invention to be Considered "Useful in the Production or Utilization of Special; Nuclear Material or Atomic Energy"

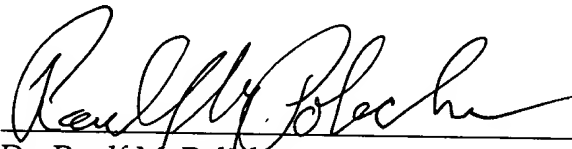
The applicants believe that the mention of the words "radiation detector" in the specification has led to the present requirement for a Statement Under § 152 of the Atomic Energy Act. However, many patents mention "radiation detector" in the specification, yet the government has no rights in the invention. For example, a search of issued patents at the U.S. Patent & Trademark Office reveals that almost 5,000 patents mention the term "radiation detector" in the specification, yet the government has no rights in the invention. (See attached Exhibit A.)

The applicants respectfully submit that this is the situation with the instant application in which the mere mention of the term "radiation detector" in the specification does not render the subject matter of the present application "useful in the production or utilization of special nuclear material or atomic energy." Further, the invention was NOT made or conceived in the course of or under any contract, subcontract, or arrangement entered into with or for the benefit of the Energy Research and Development Administration or the Department of Energy.


DECLARATION

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date Signed: 6-29-01


Dr. Raulf M. Polichar

Date Signed: 6/29/01


Dr. Kuo Tong Chen

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SPEC/"radiation detector": 4304 patents.
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Refine Search

SPEC/"radiation detector"

PAT.
NO. Title

- 1 6,256,523 **T** Low-noise optical probes
- 2 6,256,088 **T** Apparatus and method for carrying out analysis of samples
- 3 6,255,708 **T** Semiconductor P-I-N detector
- 4 6,255,656 **T** Positioner for a scintillation camera detector head
- 5 6,255,654 **T** Density detection using discrete photon counting
- 6 6,255,638 **T** Apparatus for radiation imaging using an array of image cells
- 7 6,254,726 **T** Process and apparatus for detecting moisture content in a supported fibrous web
- 8 6,252,935 **T** X-ray radiator with control of the position of the electron beam focal spot on the anode
- 9 6,252,932 **T** Method and apparatus for acquiring image information for energy subtraction processing
- 10 6,252,928 **T** Method and device for estimating bone mineral content of the calcaneus
- 11 6,252,926 **T** Method for the reconstruction of images from measured values acquired with a CT apparatus by spiral scan and CT apparatus for the implementation of the method
- 12 6,252,925 **T** System and method for performing computed tomography with fiber waveguides
- 13 6,252,823 **T** Recorder device, reading device and regulating device
- 14 6,252,462 **T** Capacitor transimpedance amplifier (CTIA) with shared load
- 15 6,252,229 **T** Sealed-cavity microstructure and microbolometer and associated fabrication methods
- 16 6,252,217 **T** Device for imaging radiation
- 17 6,251,059 **T** Medical radiation treatment delivery apparatus
- 18 6,249,567 **T** X-ray back scatter imaging system for undercarriage inspection
- 19 6,249,507 **T** Information storage systems utilizing media with optically-differentiated data sites

T

- 20 [6,249,002](#) [Bolometric focal plane array](#)
- 21 [6,248,985](#) [T Apparatus and method for the disinfection of medical waste in a continuous manner](#)
- 22 [6,248,216](#) [T Efficient production of particles by chemical reaction](#)
- 23 [6,246,894](#) [T System and method for measuring blood urea nitrogen, blood osmolarity, plasma free hemoglobin and tissue water content](#)
- 24 [6,246,744](#) [T Cubic garnet host with PR activator as a scintillator material](#)
- 25 [6,246,062](#) [T Missing lens detection system and method](#)
- 26 [6,246,045](#) [T Reflected radiance sensors for detection of reflected radiation](#)
- 27 [6,245,296](#) [T Flow immunosensor apparatus](#)
- 28 [6,245,028](#) [T Needle biopsy system](#)
- 29 [6,244,118](#) [T Sampling apparatus](#)
- 30 [6,243,441](#) [T Active matrix detector for X-ray imaging](#)
- 31 [6,242,743](#) [T Non-orbiting tomographic imaging system](#)
- 32 [6,242,741](#) [T Radiation detection apparatus](#)
- 33 [6,242,740](#) [T Imaging system functioning on submillimeter waves](#)
- 34 [6,242,733](#) [T Double sheet detector for automated transaction machine](#)
- 35 [6,242,143](#) [T Method and device for the processing of silver halide photographic materials](#)
- 36 [6,241,384](#) [T Axillary infrared thermometer and method of use](#)
- 37 [6,239,433](#) [T Sensors using detector arrays](#)
- 38 [6,238,522](#) [T Method and apparatus for measuring sheet thickness in a paper-making machine](#)
- 39 [6,236,708](#) [T 2D and 3D tomographic X-ray imaging using flat panel detectors](#)
- 40 [6,236,707](#) [T Method for the reconstruction of images from measured values acquired with a CT apparatus by spiral scan of the examination subject and CT apparatus for the implementation of the method](#)
- 41 [6,236,051](#) [T Semiconductor radiation detector](#)
- 42 [6,235,067](#) [T Combustion of nanopartitioned fuel](#)
- 43 [6,234,669](#) [T Device for measuring temperature without contact](#)
- 44 [6,233,305](#) [T Method, apparatus and their use in tomographic imaging](#)
- 45 [6,233,088](#) [T Methods for modulating a radiation signal](#)
- 46 [6,233,053](#) [T Dual standard gloss sensor](#)
- 47 [6,232,602](#) [T Enhanced vision system sensitive to infrared radiation](#)
- 48 [6,230,545](#) [T Optode for the determination of gases](#)
- 49 [6,229,877](#) [T Radiation image recording and read-out method and apparatus](#)
- 50 [6,229,377](#) [T Dual amplitude pulse generator for radiation detectors](#)

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Results of Search in All Years db for:

SPEC/"radiation: 4072 patents.

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Refine Search

PAT. NO.	Title
51 6,226,353	T Phase retrieval in phase contrast imaging
52 6,226,082	T Method and apparatus for the quantitative analysis of a liquid sample with surface enhanced spectroscopy
53 6,225,634	T True coincidence summing correction for radiation detectors
54 6,225,622	T Dynamic radiation scanning device
55 6,224,830	T Absorbance cell for microfluid devices
56 6,224,460	T Laser interferometry endpoint detection with windowless polishing pad for chemical mechanical polishing process
57 6,222,902	T Real-time tomographic system with flat panel detectors
58 6,222,193	T Radiation responsive surgical probe apparatus
59 6,222,111	T Spectrally selective thermopile detector
60 6,220,371	T Downhole in-situ measurement of physical and or chemical properties including fluid saturations of cores while coring
61 6,219,573	T Radiation detector probe
62 6,219,310	T Optical read/write apparatus
63 6,218,943	T Contraband detection and article reclaim system
64 6,218,669	T Surgical probe apparatus
65 6,217,214	T X-ray bone densitometry apparatus
66 6,216,540	T High resolution device and method for imaging concealed objects within an obscuring medium

- 67 [6,215,842 T Reduction of temporal variations in X-ray radiation](#)
- 68 [6,215,123 T Forming contacts on semiconductor substrates, radiation detectors and imaging devices](#)
- 69 [6,212,697 T Automatic flusher with bi-modal sensitivity pattern](#)
- 70 [6,211,954 T Integrated optical luminescence sensor](#)
- 71 [6,211,626 T Illumination components](#)
- 72 [6,211,529 T Infrared radiation-detecting device](#)
- 73 [6,211,522 T Passive infra-red intrusion sensor](#)
- 74 [6,208,887 T Catheter-delivered low resolution Raman scattering analyzing system for detecting lesions](#)
- 75 [6,208,708 T X-ray mammography apparatus having a solid-state radiation detector](#)
- 76 [6,208,602 T Preformatting an optical disk with positioning information in boundary areas between non-written information block areas](#)
- 77 [6,207,111 T System for describing the physical distribution of an agent in a patient](#)
- 78 [6,204,941 T Optical filtering device](#)
- 79 [6,204,661 T Detector for periodic magnetic field](#)
- 80 [6,204,505 T Surgical probe apparatus and system](#)
- 81 [6,204,502 T Heat radiation detection device and presence detection apparatus using same](#)
- 82 [6,204,087 T Fabrication of three-dimensional architecture for solid state radiation detectors](#)
- 83 [6,201,852 T Method and means for variably attenuating radiation](#)
- 84 [6,201,821 T Coherent population trapping-based frequency standard having a reduced magnitude of total a.c. stark shift](#)
- 85 [6,201,601 T Sample inspection system](#)
- 86 [6,201,247 T Line source for gamma camera](#)
- 87 [6,201,242 T Bandgap radiation detector](#)
- 88 [6,198,564 T Optical scanning system](#)
- 89 [6,198,104 T Randoms correction using artificial trigger pulses in a gamma camera system](#)
- 90 [6,198,103 T Nuclear level sensing gauge using scintillating fiber bundle](#)
- 91 [6,198,100 T Method for fabricating an infrared radiation detector](#)
- 92 [6,195,574 T Monitoring constituents of an animal organ using discrete radiation](#)
- 93 [6,195,413 T Method and arrangement for detecting X-rays](#)
- 94 [6,195,272 T Pulsed high voltage power supply radiography system having a one to one correspondence between low voltage input pulses and high voltage output pulses](#)
- 95 [6,195,168 T Infrared scanning interferometry apparatus and method](#)
- 96 [6,195,162 T Seismic sensor with interferometric sensing apparatus](#)
- 97 [6,194,728 T Imaging detector for universal nuclear medicine imager](#)
- 98 [6,194,727 T Direct radiographic imaging panel having a dielectric layer with an adjusted time constant](#)
- 99 [6,194,726 T Semiconductor radiation detector with downconversion element](#)
- 100 [6,194,722 T Method of fabrication of an infrared radiation detector and infrared detector device](#)

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO. Title

- 101 6,194,423 **T** Fused isoquinolines as dopamine receptor ligands
- 102 6,191,465 **T** Solid state radiation detector
- 103 6,191,430 **T** Gel point sensor
- 104 6,191,422 **T** Radiation probe with compound semiconductor crystal performing in a trapping-dependent operational mode
- 105 6,191,406 **T** Data reader and reader system having visible centerless targeting
- 106 6,191,392 **T** Method of measuring electromagnetic radiation
- 107 6,189,565 **T** Valve with light emitting and detecting and detecting arrangement for monitoring opening and closing of the valve
- 108 6,189,370 **T** Fluid dose, flow and coagulation sensor for medical instrument
- 109 6,188,141 **T** Device for controlling access to a space closed by a door
- 110 6,188,089 **T** Semiconductor imaging device
- 111 6,188,070 **T** Photonic radiation sensor of large dimensions
- 112 6,185,271 **T** Helical computed tomography with feedback scan control
- 113 6,184,529 **T** Methods and apparatus for performing scene based uniformity correction in imaging systems
- 114 6,183,919 **T** Darkfield imaging for enhancing optical detection of edges and minimum features
- 115 6,183,130 **T** Apparatus for substrate temperature measurement using a reflecting cavity and detector
- 116 6,182,440 **T** Infrared radiation coanda suppressor

- 117 [6,181,773](#) **T** [Single-stroke radiation anti-scatter device for x-ray exposure window](#)
- 118 [6,181,474](#) **T** [Scanning confocal microscope with objective lens position tracking](#)
- 119 [6,180,955](#) **T** [Integrating optical collector with reduced re-illumination of phosphor sheet](#)
- 120 [6,180,946](#) **T** [Radiation camera with high spatial, temporal, and energy resolution](#)
- 121 [6,180,945](#) **T** [Dual spiral photoconductive detector](#)
- 122 [6,180,944](#) **T** [Large area X-ray imager with vented seam and method of fabrication](#)
- 123 [6,180,432](#) **T** [Fabrication of single absorber layer radiated energy conversion device](#)
- 124 [6,179,785](#) **T** [Ambient sensing feature for thermometer recalibration system](#)
- 125 [6,177,675](#) **T** [Gamma camera system having multi-resolution detectors](#)
- 126 [6,177,289](#) **T** [Lateral trench optical detectors](#)
- 127 [6,176,990](#) **T** [Micro-electrophoresis chip for moving and separating nucleic acids and other charged molecules](#)
- 128 [6,175,610](#) **T** [Medical technical system controlled by vision-detected operator activity](#)
- 129 [6,175,119](#) **T** [Photomultiplier tube identifier](#)
- 130 [6,175,117](#) **T** [Tissue analysis apparatus](#)
- 131 [6,175,116](#) **T** [Hybrid collimation and coincidence imager for simultaneous positron and single photon imaging](#)
- 132 [6,174,750](#) **T** [Process for fabricating a drift-type silicon radiation detector](#)
- 133 [6,174,080](#) **T** [Apparatus and methods for measuring substrate temperature](#)
- 134 [6,173,037](#) **T** [Method of and apparatus for X-ray fluorescent analysis of thin layers](#)
- 135 [6,172,366](#) **T** [Device for producing and detecting induced heat radiation](#)
- 136 [6,171,243](#) **T** [Combination of collimated and coincidence information for positron imaging](#)
- 137 [6,169,778](#) **T** [Computed tomography device](#)
- 138 [6,169,775](#) **T** [Radiation detecting apparatus](#)
- 139 [6,169,486](#) **T** [Monitoring and control system for monitoring the temperature of a glass ceramic cooktop](#)
- 140 [6,169,285](#) **T** [Radiation-based imaging system employing virtual light-responsive elements](#)
- 141 [6,166,808](#) **T** [Optical height meter, surface-inspection device provided with such a height meter, and lithographic apparatus provided with the inspection device](#)
- 142 [6,166,496](#) **T** [Lighting entertainment system](#)
- 143 [6,166,366](#) **T** [System and method for monitoring and controlling the deposition of pattern and overall material coatings](#)
- 144 [6,163,617](#) **T** [Backprojection with a multi-color rendering engine](#)
- 145 [6,163,591](#) **T** [Screening apparatus and method](#)
- 146 [6,163,029](#) **T** [Radiation detector, radiation detecting method and X-ray diagnosing apparatus with same radiation detector](#)
- 147 [6,162,869](#) **T** [Waterborne acrylic polymers containing polymeric fluorescent compounds](#)
- 148 [6,162,165](#) **T** [Medical radiation treatment device](#)
- 149 [6,161,028](#) **T** [Method for determining analyte concentration using periodic temperature modulation and phase detection](#)
- 150 [6,160,866](#) **T** [Apparatus for bilateral femur measurement](#)

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO. Title

- 151 6,160,259 **T** Channel-specific control of pulse integration in a gamma camera system in response to pulse pile-up
- 152 6,159,141 **T** Medical radiation treatment delivery apparatus
- 153 6,158,929 **T** Electronically triggered surface sensor unit
- 154 6,158,889 **T** Rheumatism scanner with holder for immobilizing a finger joint
- 155 6,157,755 **T** Laser system
- 156 6,157,699 **T** Method and apparatus for non-destructive detection of hidden flaws
- 157 6,157,404 **T** Imaging system including an array of dual-band microbridge detectors
- 158 6,157,038 **T** Mounting electrostatographic end flange
- 159 6,157,035 **T** Spatially modulated detector for radiation
- 160 6,157,034 **T** Flexible multi-purpose modular assembly for a family of PGNAAs bulk material analyzers
- 161 6,154,516 **T** Cardiac CT system
- 162 6,154,432 **T** Optical storage system
- 163 6,154,304 **T** Monitoring distortion of a spinning mirror
- 164 6,154,178 **T** Ultra wideband personal electromagnetic radiation monitor
- 165 6,154,039 **T** Functional OBIC analysis
- 166 6,153,884 **T** Radioisotope proximity sensor
- 167 6,151,381 **T** Gated transmission and scatter detection for x-ray imaging

- 168 [6,151,281](#) **T** [Reading and writing an incomplete recording on an optical disk](#)
- 169 [6,150,974](#) **T** [Infrared transparent radar antenna](#)
- 170 [6,150,662](#) **T** [Gantry for medical imaging system](#)
- 171 [6,150,659](#) **T** [Digital multi-frequency infrared flame detector](#)
- 172 [6,150,494](#) **T** [Polymers containing optical brightener compounds copolymerized therein and methods of making and using therefor](#)
- 173 [6,149,643](#) **T** [Method and apparatus for exposing a human eye to a controlled pattern of radiation](#)
- 174 [6,149,593](#) **T** [Method and apparatus for detecting beta radiation](#)
- 175 [6,148,060](#) **T** [Integrated automatic exposure control for portal imaging in radiotherapy](#)
- 176 [6,147,353](#) **T** [Image shift for gamma camera](#)
- 177 [6,144,876](#) **T** [Scanning a radiation source with a count rate output derived with a dynamic window analysis](#)
- 178 [6,144,456](#) **T** [Apparatus having a multiple angle transparent rotating element for measuring the thickness of transparent objects](#)
- 179 [6,143,200](#) **T** [Rare earth oxysulfide phosphor and X-ray detector using the same](#)
- 180 [6,143,134](#) **T** [Chip spreader for air-lock feeder](#)
- 181 [6,142,285](#) **T** [Coin testing apparatus and method](#)
- 182 [RE36,943](#) **T** [Modularized assembly for bulk material analyzer](#)
- 183 [6,140,650](#) **T** [Calibration of PET cameras](#)
- 184 [6,140,649](#) **T** [Imaging attenuation correction employing simultaneous transmission/emission scanning](#)
- 185 [6,140,637](#) **T** [Method and apparatus for fluorescence logging](#)
- 186 [6,138,046](#) **T** [Dosimetry probe](#)
- 187 [6,137,623](#) **T** [Modulatable reflectors and methods for using same](#)
- 188 [6,137,403](#) **T** [Sash sensor and method of sensing a sash using an array of multiplexed elements](#)
- 189 [6,137,294](#) **T** [Prediction of bulk density of particulates with a correlation based on moisture content](#)
- 190 [6,137,109](#) **T** [Autonomous tangential motion control in a multi-detector gamma camera](#)
- 191 [6,135,995](#) **T** [Electronically pulsed laser system](#)
- 192 [6,135,955](#) **T** [Apparatus and methods for determining spatial coordinates of radiolabeled tissue using gamma-rays and associated characteristic x-rays](#)
- 193 [6,134,462](#) **T** [Method and apparatus for analyzing a sample](#)
- 194 [6,134,293](#) **T** [Image reconstruction method for computed tomography](#)
- 195 [6,134,003](#) **T** [Method and apparatus for performing optical measurements using a fiber optic imaging guidewire, catheter or endoscope](#)
- 196 [6,133,614](#) **T** [Apparatus for detecting radiation and method for manufacturing such apparatus](#)
- 197 [6,133,596](#) **T** [Near complete charge transfer device](#)
- 198 [6,133,578](#) **T** [Nuclear gauge for measuring a characteristic of moving sheet material and alignment compensation](#)
- 199 [6,132,084](#) **T** [Infrared non-contact temperature measurement for household appliances](#)
- 200 [6,131,769](#) **T** [Apparatus for detecting low liquid level in bottom-draining container](#)

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PAT. NO.	Title
201 6,130,466	<u>T Semiconductor heterostructure radiation detector having two spectral sensitivity ranges</u>
202 6,130,438	<u>T Wrapping paper defect inspection apparatus for a cigarette manufacturing machine</u>
203 6,130,415	<u>T Low temperature control of rapid thermal processes</u>
204 6,129,670	<u>T Real time brachytherapy spatial registration and visualization system</u>
205 6,128,367	<u>T X-ray tube</u>
206 6,128,078	<u>T Radiation filter, spectrometer and imager using a micro-mirror array</u>
207 6,127,679	<u>T Thermal sensing system having a fast response calibration device</u>
208 6,126,909	<u>T Process and apparatus for the production of BI-212 and a use thereof</u>
209 6,125,335	<u>T Wide field calibration of a multi-sensor array</u>
210 6,125,163	<u>T 3D image reconstruction method for use in computed tomography</u>
211 6,122,967	<u>T Free motion scanning system</u>
212 6,122,536	<u>T Implantable sensor and system for measurement and control of blood constituent levels</u>
213 6,122,394	<u>T Compact, simple, 2D raster, image-building fingerprint scanner</u>
214 6,121,883	<u>T Method and device for fluid pressure analytical electronic heat and fire detection</u>
215 6,121,876	<u>T System for absorbing and or scattering superfluous radiation in an optical motion sensor</u>
216 6,121,843	<u>T Charge mode capacitor transimpedance amplifier</u>
217 6,121,623	<u>T Parallel radiation detector</u>

- 218 [6,121,620](#) **T** [Radiation detector and process for its production](#)
- 219 [6,121,618](#) **T** [Method of operating a high responsivity thermochromic infrared detector](#)
- 220 [6,121,615](#) **T** [Infrared radiation sensitive device](#)
- 221 [6,118,892](#) **T** [Method for automatic detection of region of interest for digital x-ray detectors using a filtered histogram](#)
- 222 [6,117,099](#) **T** [System and method for noninvasive hemodynamic measurements in hemodialysis shunts](#)
- 223 [6,116,779](#) **T** [Method for determining the temperature of semiconductor substrates from bandgap spectra](#)
- 224 [6,115,348](#) **T** [Information storage systems utilizing media with optically-differentiated data sites](#)
- 225 [6,115,161](#) **T** [Computer with wide angle infrared communication equipment](#)
- 226 [6,115,123](#) **T** [Holographic laser aimpoint selection and maintenance](#)
- 227 [6,114,701](#) **T** [Configurable multiple detector nuclear medicine gantry](#)
- 228 [6,114,697](#) **T** [Bandgap radiation detector](#)
- 229 [6,111,934](#) **T** [X-ray tube with electromagnetic electron beam deflector formed by laminating in planes oriented perpendicularly to the electron beam](#)
- 230 [6,111,929](#) **T** [Scanning X-ray fluorescence analyzer](#)
- 231 [6,111,638](#) **T** [Method and apparatus for inspection of a solar cell by use of a rotating illumination source](#)
- 232 [6,111,257](#) **T** [Support assembly for scintillating crystal](#)
- 233 [6,111,254](#) **T** [Infrared radiation detector](#)
- 234 [6,111,228](#) **T** [Method and apparatus for sensing properties of glass-ceramic cooktop](#)
- 235 [6,110,339](#) **T** [Nanofabricated separation matrix for analysis of biopolymers and methods of making and using same](#)
- 236 [6,109,783](#) **T** [Optic pyrometer for gas turbines](#)
- 237 [6,108,419](#) **T** [Differential fault analysis hardening apparatus and evaluation method](#)
- 238 [6,108,093](#) **T** [Automated inspection system for residual metal after chemical-mechanical polishing](#)
- 239 [6,108,071](#) **T** [Speed and position measurement system](#)
- 240 [6,107,632](#) **T** [Microminiature neutron detector](#)
- 241 [6,107,630](#) **T** [Array combining many photoconductive detectors in a compact package](#)
- 242 [6,107,350](#) **T** [Gel compositions](#)
- 243 [6,107,102](#) **T** [Therapeutic microdevices and methods of making and using same](#)
- 244 [6,106,877](#) **T** [Method of terminating roasting of bulk materials in real time on basis of objectively determined color of materials](#)
- 245 [6,104,945](#) **T** [Spectral volume microprobe arrays](#)
- 246 [6,103,533](#) **T** [Molecular imaging](#)
- 247 [6,103,403](#) **T** [Clathrate structure for electronic and electro-optic applications](#)
- 248 [6,102,567](#) **T** [X-ray bone densitometry using a vertically scanning gantry](#)
- 249 [6,102,053](#) **T** [Process for separating radioactive and hazardous metal contaminants from soils](#)
- 250 [6,101,299](#) **T** [Optical switch targeting system](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 251 [6,100,540](#) [T Laser displacement measurement system](#)
- 252 [6,100,533](#) [T Three-axis asymmetric radiation detector system](#)
- 253 [6,100,531](#) [T Dual-purpose radiation transmission source for nuclear medicine imaging system](#)
- 254 [6,100,527](#) [T Fast response radiation detector](#)
- 255 [6,100,517](#) [T Three dimensional camera](#)
- 256 [6,099,457](#) [T Endocurietherapy](#)
- 257 [6,097,860](#) [T Compact optical matrix switch with fixed location fibers](#)
- 258 [6,097,858](#) [T Sensing configuration for fiber optic switch control system](#)
- 259 [6,097,786](#) [T Method and apparatus for measuring multiphase flows](#)
- 260 [6,097,034](#) [T Radiation source assembly and transducer for analyzing gases or other substances](#)
- 261 [6,096,289](#) [T Intraoperative, intravascular, and endoscopic tumor and lesion detection, biopsy and therapy](#)
- 262 [6,095,682](#) [T Pyrometer multimeter](#)
- 263 [6,094,589](#) [T Medical diagnostic apparatus with a control limited to use only by an authorized person](#)
- 264 [6,094,152](#) [T Algorithm for A/D window control for electronic portal image acquisition in a radiotherapy system](#)
- 265 [6,093,938](#) [T Stacked die integrated circuit device](#)
- 266 [6,093,926](#) [T Method of counting seeds dispensed through seed tubes of an air seeding system](#)
- 267 [6,093,381](#) [T Modulation of the sensitivity of tumor cells to chemotherapeutics](#)

- 268 [6,092,928](#) **T** [Apparatus and method to determine the relative position of a detector array and an x-ray tube focal spot](#)
- 269 [6,091,905](#) **T** [Telecentric 3D camera and method](#)
- 270 [6,091,834](#) **T** [Method of illuminating a digital representation of an image](#)
- 271 [6,091,069](#) **T** [Infrared optical system](#)
- 272 [6,090,061](#) **T** [Disposable extracorporeal conduit for blood constituent monitoring](#)
- 273 [6,088,423](#) **T** [Multiview x-ray based system for detecting contraband such as in baggage](#)
- 274 [6,087,656](#) **T** [Radiation detector system and method with stabilized system gain](#)
- 275 [6,087,646](#) **T** [Wide field-of-view radiation sensors and methods](#)
- 276 [6,087,186](#) **T** [Methods and apparatus for synthesizing labeled combinatorial chemistry libraries](#)
- 277 [6,086,942](#) **T** [Fluid-jet deposition of radioactive material for brachytherapy devices](#)
- 278 [6,084,243](#) **T** [Apparatus and method for containing radioactive sources](#)
- 279 [6,084,052](#) **T** [Use of polyaryletherketone-type thermoplastics in downhole tools](#)
- 280 [6,083,763](#) **T** [Multiplexed molecular analysis apparatus and method](#)
- 281 [6,083,167](#) **T** [Systems and methods for providing radiation therapy and catheter guides](#)
- 282 [6,081,637](#) **T** [Arrangement for monitoring power of diode-laser-radiation laterally coupled into an optical-fiber](#)
- 283 [6,081,577](#) **T** [Method and system for creating task-dependent three-dimensional images](#)
- 284 [6,080,989](#) **T** [Apparatus and methods for detecting and/or imaging gamma radiation](#)
- 285 [6,080,950](#) **T** [Method for determining the maturity and quality of seeds and an apparatus for sorting seeds](#)
- 286 [6,079,433](#) **T** [Automatic soil moisture sensing and watering system](#)
- 287 [6,078,639](#) **T** [Real time continuous CT imaging](#)
- 288 [6,078,052](#) **T** [Scintillation detector with wavelength-shifting optical fibers](#)
- 289 [6,078,039](#) **T** [Segmental tube array high pressure gas proportional detector for nuclear medicine imaging](#)
- 290 [6,076,198](#) **T** [Tubular film dispensing apparatus](#)
- 291 [6,076,009](#) **T** [Solid state beta-sensitive surgical probe](#)
- 292 [6,075,261](#) **T** [Neutron detecting semiconductor device](#)
- 293 [6,075,248](#) **T** [Direct radiographic imaging panel with shielding electrode](#)
- 294 [6,075,247](#) **T** [Device for reading an imaging sensor matrix](#)
- 295 [6,075,246](#) **T** [Infrared measuring arrangement with expanded measuring range](#)
- 296 [6,072,181](#) **T** [Ionizing radiation detector](#)
- 297 [6,071,166](#) **T** [Light shooting and detecting toy figures](#)
- 298 [6,069,966](#) **T** [Apparatus and method for tire condition assessment](#)
- 299 [6,069,933](#) **T** [Method for operating a medical X-ray machine utilizing plural X-ray pulses](#)
- 300 [6,069,361](#) **T** [Imaging resolution of X-ray digital sensors](#)

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SPEC/"radiation: 4072 patents.

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
301 6,067,840	T Method and apparatus for infrared sensing of gas
302 6,066,850	T Satellite attitude sensor using thermal imaging
303 6,064,510	T Spectro-polarimetric imager
304 6,064,067	T High-gain infrared collector and data node
305 6,064,066	T Bolometer autocalibration
306 6,064,061	T Enhancements in radiant energy transducer systems
307 6,064,054	T Synchronous detection for photoconductive detectors
308 6,061,128	T Verification device for optical clinical assay systems
309 6,060,712	T Scanning line source for gamma camera
310 6,060,169	T Coating Material and method for providing asset protection
311 6,059,714	T Radioactive medical devices
312 6,059,455	T Portable X-ray bone densitometry system
313 6,059,046	T Low pressure carbon dioxide fire protection system for semiconductor fabrication facility
314 6,058,324	T Examination and imaging of biological tissue
315 6,057,550	T Infrared objective
316 6,057,149	T Microscale devices and reactions in microscale devices
317 6,056,435	T Ambient and perfusion normalized temperature detector
318 6,054,848	T Method and apparatus for detecting electromagnetic waves

- 319 [6,054,705](#) **T** [Charge-integrating preamplifier for capacitive transducer](#)
- 320 [6,052,618](#) **T** [Device for mapping electrical activity in the heart](#)
- 321 [6,049,589](#) **T** [X-ray fluorescence measuring system making use of polarized excitation radiation, and X-ray tube](#)
- 322 [6,049,586](#) **T** [Non-destructive inspection apparatus and inspection system using it](#)
- 323 [6,049,282](#) **T** [Method and apparatus for measuring ice thickness on substrates using backscattering of gamma rays](#)
- 324 [6,048,695](#) **T** [Chemically modified nucleic acids and methods for coupling nucleic acids to solid support](#)
- 325 [6,048,300](#) **T** [Compact cartridge for afterloader](#)
- 326 [6,048,093](#) **T** [Differential radiation detector probe](#)
- 327 [6,047,205](#) **T** [Radiation detector probe](#)
- 328 [6,046,808](#) **T** [Radiation filter, spectrometer and imager using a micro-mirror array](#)
- 329 [6,046,454](#) **T** [Semiconductor radiation detector with enhanced charge collection](#)
- 330 [6,046,068](#) **T** [Forming contacts on semiconductor substrates radiation detectors and imaging devices](#)
- 331 [6,045,502](#) **T** [Analyzing system with disposable calibration device](#)
- 332 [6,045,257](#) **T** [Axillary infrared thermometer and method of use](#)
- 333 [6,045,226](#) **T** [Device for measuring the visual attention of subjects for a visible object](#)
- 334 [6,045,076](#) **T** [Fishing reel with electronic antibacklashing features dependent on a sensed line condition](#)
- 335 [6,044,504](#) **T** [Patient support for a scintillation camera](#)
- 336 [6,044,131](#) **T** [Secure digital x-ray image authentication method](#)
- 337 [6,043,895](#) **T** [Radiation probe with flexible sleeve](#)
- 338 [6,041,966](#) **T** [Enclosure for a bottom draining container](#)
- 339 [6,040,580](#) **T** [Method and apparatus for forming multi-dimensional attenuation correction data in tomography applications](#)
- 340 [6,040,568](#) **T** [Multipurpose readout integrated circuit with in cell adaptive non-uniformity correction and enhanced dynamic range](#)
- 341 [6,038,282](#) **T** [X-ray imaging system](#)
- 342 [6,037,724](#) **T** [Electronic controlled surgical power tool](#)
- 343 [6,037,595](#) **T** [Radiation detector with shielding electrode](#)
- 344 [6,037,593](#) **T** [Catoptric optical system for detecting motion of a radiant source](#)
- 345 [6,037,280](#) **T** [Ultraviolet ray \(UV\) blocking textile containing particles](#)
- 346 [6,034,407](#) **T** [Multi-spectral planar photodiode infrared radiation detector pixels](#)
- 347 [6,032,067](#) **T** [Radiation delivery system](#)
- 348 [6,031,888](#) **T** [Fluoro-assist feature for a diagnostic imaging device](#)
- 349 [6,028,870](#) **T** [Solid state laser and a method of adjusting the pulse energy of a solid state laser](#)
- 350 [6,028,434](#) **T** [Method and apparatus for detecting emitted radiation from interrupted electrons](#)

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PAT. NO.	Title
351 6,028,314	T Method for correcting image errors in an x-ray image, and x-ray diagnostic apparatus and solid-state radiation detector operating in accordance with the method
352 6,028,312	T Electronic chopping
353 6,025,599	T Image capture element
354 6,022,143	T X-ray system with improved accessibility for the user
355 6,020,594	T Ballistic velocity measurement system having dual sensor unit with parabolic slit mirrors
356 6,017,435	T Molecular imaging
357 6,016,190	T Method and apparatus for true temperature determination
358 6,013,912	T Multispectral semiconductor resonant-cavity detector sensitive in at least two wavelength bands
359 6,012,606	T Apparatus for detecting low liquid level in bottom-draining container
360 6,012,532	T Method and apparatus for prevention, suppression or mitigation of explosions in confined subterranean chambers
361 6,012,326	T Detection of volatile substances
362 6,011,265	T Radiation detector of very high performance
363 6,011,264	T Apparatus, system and method for gamma ray and x-ray detection
364 6,011,263	T Method and apparatus for measuring multi-phase flow
365 6,010,538	T In situ technique for monitoring and controlling a process of chemical-mechanical-polishing via a radiative communication link

- 366 6,009,340 **T** Multimode, multispectral imaging system
- 367 6,009,147 **T** X-ray bone densitometry
- 368 6,009,141 **T** X-ray computed tomography apparatus with electronic scanning of a ring-shaped anode
- 369 6,009,063 **T** Universal portable minidisk drive system
- 370 6,008,493 **T** Method and apparatus for performing correction of emission contamination and deadtime loss in a medical imaging system
- 371 6,005,911 **T** Large area array, single exposure digital mammography
- 372 6,005,909 **T** Method of controlling a tomography apparatus without coupling rod
- 373 6,005,908 **T** X-ray computed tomography apparatus with radiation detector which reduces image unsharpness
- 374 6,005,878 **T** Efficient frequency conversion apparatus for use with multimode solid-state lasers
- 375 6,005,256 **T** Method and apparatus for performing cell analysis based on simultaneous multiple marker emissions from neoplasia (CASMMEN)
- 376 6,005,244 **T** Detecting bypassed hydrocarbons in subsurface formations
- 377 6,003,620 **T** Downhole in-situ measurement of physical and or chemical properties including fluid saturations of cores while coring
- 378 6,002,959 **T** Morphometric x-ray absorptiometry (MXA)
- 379 6,002,953 **T** Non-invasive IR transmission measurement of analyte in the tympanic membrane
- 380 6,002,742 **T** Method and device for triggering of X-ray image sensor
- 381 6,002,702 **T** Radiation source for laser spectroscopy
- 382 6,002,483 **T** Non-contact interference optical system for measuring the length of a moving surface with a large N.A. collector optical system
- 383 6,002,482 **T** Disposable calibration device
- 384 6,002,479 **T** Apparatus and method for light spectrum measurement
- 385 6,002,475 **T** Spectrophotometric analytical cartridge
- 386 6,002,134 **T** Cross-strip semiconductor detector with cord-wood construction
- 387 5,999,836 **T** Enhanced high resolution breast imaging device and method utilizing non-ionizing radiation of narrow spectral bandwidth
- 388 5,999,588 **T** Deadtime correction in a nuclear medicine imaging system
- 389 5,999,253 **T** Apparatus and method for spectrometry
- 390 5,998,792 **T** Positron emission tomography with variable detector geometry
- 391 5,998,768 **T** Active thermal control of surfaces by steering heating beam in response to sensed thermal radiation
- 392 5,995,862 **T** System for monitoring ultraviolet radiation with associated checking of the characteristics of the skin for the administration of protective creams
- 393 5,995,860 **T** Implantable sensor and system for measurement and control of blood constituent levels
- 394 5,995,583 **T** Dental radiography using an intra-oral linear array sensor
- 395 5,995,580 **T** Image reconstruction method for a computed tomography apparatus
- 396 5,994,693 **T** Gamma camera quality test pattern
- 397 5,993,059 **T** Combined emissivity and radiance measurement for determination of temperature of radiant object
- T**

- 398 [5,991,357](#) [Integrated radiation detecting and collimating assembly for X-ray tomography system](#)
- 399 [5,991,023](#) [T Method of interpreting spectrometric data](#)
- 400 [5,990,482](#) [T Method and apparatus for performing correction of transmission self-contamination in a medical imaging system](#)
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PAT.
NO.

Title

- 401 [5,990,472](#) [T](#) [Microelectronic radiation detectors for detecting and emitting radiation signals](#)
- 402 [5,990,296](#) [T](#) [Single chain B3 antibody fusion proteins and their uses](#)
- 403 [5,987,483](#) [T](#) [Random number generator based on directional randomness associated with naturally occurring random events, and method therefor](#)
- 404 [5,987,351](#) [T](#) [Optical coupler for in vivo examination of biological tissue](#)
- 405 [5,987,350](#) [T](#) [Surgical probe apparatus and system](#)
- 406 [5,985,679](#) [T](#) [Automated endpoint detection system during chemical-mechanical polishing](#)
- 407 [5,984,788](#) [T](#) [Interactive toy shooting game having a target with a feelable output](#)
- 408 [5,984,023](#) [T](#) [Downhole in-situ measurement of physical and or chemical properties including fluid saturations of cores while coring](#)
- 409 [5,982,848](#) [T](#) [X-ray diagnosis machine having displaceable measurement field](#)
- 410 [5,982,845](#) [T](#) [Forward projection and backprojection processor](#)
- 411 [5,982,484](#) [T](#) [Sample analysis using low resolution Raman spectroscopy](#)
- 412 [5,981,953](#) [T](#) [X-ray image detector and read out apparatus](#)
- 413 [5,981,950](#) [T](#) [Multicolor photonic radiation detector](#)
- 414 [5,981,726](#) [T](#) [Chimeric and mutationally stabilized tumor-specific B1, B3 and B5 antibody fragments; immunotoxic fusion proteins; and uses thereof](#)
- 415 [5,980,953](#) [T](#) [Anti-inflammatory factor, method of isolation, and use](#)
- 416 [5,977,546](#) [T](#) [Self normalizing radiant energy monitor and apparatus for gain independent material quantity measurements](#)

- 417 [5,976,492](#) **T** [Radioactive phosphorus labeled proteins for targeted radiotherapy](#)
- 418 [5,974,210](#) **T** [Probe for spectroscopic analysis](#)
- 419 [5,974,111](#) **T** [Identifying explosives or other contraband by employing transmitted or scattered X-rays](#)
- 420 [5,973,673](#) **T** [Cursor control device](#)
- 421 [5,970,720](#) **T** [Combined refrigerators and detecting system using the same](#)
- 422 [5,970,227](#) **T** [Wireless proximity detector security feature](#)
- 423 [5,967,982](#) **T** [Non-invasive spine and bone registration for frameless stereotaxy](#)
- 424 [5,965,893](#) **T** [X-ray CT solid-state detector](#)
- 425 [5,965,889](#) **T** [Imaging stage for fourier transform infrared spectrometer](#)
- 426 [5,965,065](#) **T** [Method of filtering x-rays](#)
- 427 [5,963,335](#) **T** [Means and method for measuring absorption of radiation-scattering samples](#)
- 428 [5,963,145](#) **T** [System for providing wireless pointer control](#)
- 429 [5,962,862](#) **T** [Method and apparatus for verifying the presence or absence of a component](#)
- 430 [5,962,855](#) **T** [Maximum volume ruggedized scintillation package](#)
- 431 [5,962,850](#) **T** [Large aperture particle detector with integrated antenna](#)
- 432 [5,961,955](#) **T** [Radioprotectant for peptides labeled with radioisotope](#)
- 433 [5,961,714](#) **T** [Method of growing lutetium aluminum perovskite crystals and apparatus including lutetium aluminum perovskite crystal scintillators](#)
- 434 [5,961,458](#) **T** [Minimally invasive surgical probe for tissue identification and retrieval and method of use](#)
- 435 [5,959,339](#) **T** [Simultaneous two-wavelength p-n-p-n Infrared detector](#)
- 436 [5,959,299](#) **T** [Uncooled infrared sensors for the detection and identification of chemical products of combustion](#)
- 437 [5,958,348](#) **T** [Efficient production of particles by chemical reaction](#)
- 438 [5,957,829](#) **T** [Apparatus and method for radiotherapy using a radioactive source wire having a magnetic insert](#)
- 439 [5,957,581](#) **T** [Temperature measurement by active photothermal radiometry](#)
- 440 [5,957,127](#) **T** [Capnometer](#)
- 441 [5,955,002](#) **T** [Method for determining properties of a polymer coating or film cured by cationic polymerization](#)
- 442 [5,952,664](#) **T** [Laser imaging apparatus using biomedical markers that bind to cancer cells](#)
- 443 [5,952,646](#) **T** [Low temperature bump-bonding semiconductor imaging device](#)
- 444 [5,951,481](#) **T** [Apparatus and method for non-invasive measurement of a substance](#)
- 445 [5,948,137](#) **T** [Scrap metal measuring and weighing process and apparatus](#)
- 446 [5,945,676](#) **T** [Method and apparatus for multi-spectral analysis in noninvasive NIR spectroscopy](#)
- 447 [5,942,791](#) **T** [Micromachined devices having microbridge structure](#)
- 448 [5,942,756](#) **T** [Radiation detector and fabrication method](#)
- 449 [5,941,822](#) **T** [Apparatus for tissue type recognition within a body canal](#)
- 450 [5,940,470](#) **T** [Medical X-ray system having a common support and a further component for mounting a radiation receiver](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
451 5,936,268	T Epitaxial passivation of group II-VI infrared photodetectors
452 5,936,246	T Portable radiation detector
453 5,933,565	T Optically based method and apparatus for detecting a phase transition temperature of a material of interest
454 5,933,473	T Non-destructive inspection apparatus and inspection system using it
455 5,933,233	T Method and device for the determination of material-specific parameters of one or a few molecules by means of correlation spectroscopy
456 5,932,879	T Solid state beta-sensitive surgical probe
457 5,929,689	T Photodetector quiescent current compensation method and apparatus
458 5,929,450	T High temperature gas stream optical flame sensor and method for fabricating same
459 5,929,446	T Configurable multiple detector nuclear medicine gantry
460 5,929,440	T Electromagnetic radiation detector
461 5,929,433	T Reading device for a mosaic of electromagnetic detectors and detection system equipped with such a device
462 5,929,342	T Method for monitoring three phase fluid flow in tubulars
463 5,929,337	T Non-mechanical contact ultrasound system for monitoring contents of a moving container
464 5,926,495	T Laser diode pump wavelength sensing and control apparatus and method
465 5,926,272	T Spectroscopy
466 5,926,264	T Position sensing of a remote target

- 467 [5,925,898](#) **T** [Optoelectronic transducer and production methods](#)
- 468 [5,925,883](#) **T** [Staring IR-FPA with CCD-based image motion compensation](#)
- 469 [5,924,996](#) **T** [Process and device for detecting the exchange of heat between the human body and the invented device and its correlation to the glucose concentration in human blood](#)
- 470 [5,924,296](#) **T** [Motor vehicle air-conditioning apparatus with engine speed control](#)
- 471 [5,923,953](#) **T** [Process for forming a high gain, wide bandgap gallium nitride photoconductor having particular sensitivity to ultraviolet radiation](#)
- 472 [5,923,722](#) **T** [X-ray diagnostic apparatus with control of x-ray emission dependent on the afterglow in the solid-state detector](#)
- 473 [5,923,035](#) **T** [Infrared absorption measuring device](#)
- 474 [5,922,609](#) **T** [Method for infrared-optical determination of the concentration of at least one chemical analyte in a liquid sample](#)
- 475 [5,920,831](#) **T** [Film digitization using dye density estimates](#)
- 476 [5,920,417](#) **T** [Microelectromechanical television scanning device and method for making the same](#)
- 477 [5,919,934](#) **T** [Compounds, compositions, and methods for cancer imaging and therapy](#)
- 478 [5,919,133](#) **T** [Conformal wrap for pulse oximeter sensor](#)
- 479 [5,917,878](#) **T** [Measurement system for a computed tomography apparatus](#)
- 480 [5,917,843](#) **T** [Laser cavity assembly](#)
- 481 [5,917,596](#) **T** [Radiation field analyzer using interference patterns](#)
- 482 [5,916,167](#) **T** [Surgical probe apparatus and system](#)
- 483 [5,914,997](#) **T** [X-ray spectrometer with an analyzer crystal having a partly variable and a partly constant radius of curvature](#)
- 484 [5,914,489](#) **T** [Continuous optical path monitoring of optical flame and radiation detectors](#)
- 485 [5,912,825](#) **T** [Gated base line restorer system](#)
- 486 [5,912,741](#) **T** [Imaging scatterometer](#)
- 487 [5,912,459](#) **T** [Method and apparatus for fluorescence logging](#)
- 488 [5,912,456](#) **T** [Integrally formed surface plasmon resonance sensor](#)
- 489 [5,911,689](#) **T** [Subcutaneous radiation reflection probe](#)
- 490 [5,909,041](#) **T** [Photogate sensor with improved responsivity](#)
- 491 [5,909,029](#) **T** [Detector for x-ray tomography apparatus](#)
- 492 [5,907,156](#) **T** [Wide range radiation detector](#)
- 493 [5,907,151](#) **T** [Surface mountable optoelectronic transducer and method for its production](#)
- 494 [5,905,381](#) **T** [Functional OBIC analysis](#)
- 495 [5,903,685](#) **T** [Sensor arrangement](#)
- 496 [5,900,799](#) **T** [High responsivity thermochromic infrared detector](#)
- 497 [5,900,636](#) **T** [Dual-mode gamma camera system utilizing single-photon transmission scanning for attenuation correction of PET data](#)
- 498 [5,900,630](#) **T** [Radiation detection apparatus](#)
- 499 [5,898,755](#) **T** [X-ray tube](#)
- 500 [5,898,503](#) **T** [Surface plasmon resonance sensor with interchangeable optical element](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
501 5,898,184	<u>T Reading of Information in radiation emitted from storage media</u>
502 5,894,129	<u>T Imaging apparatus</u>
503 5,894,126	<u>T Fast response radiation detector</u>
504 5,893,642	<u>T Mixer and apparatus for analyzing fluid flow</u>
505 5,892,586	<u>T Remote gas detection apparatus having a microlaser</u>
506 5,892,577	<u>T Apparatus and method for carrying out analysis of samples</u>
507 5,892,227	<u>T Radiation detection system and processes for preparing the same</u>
508 5,892,221	<u>T Combat simulation method and system utilizing lasers with wireless activation</u>
509 5,889,157	<u>T Humanized B3 antibody fragments, fusion proteins, and uses thereof</u>
510 5,886,359	<u>T X-ray dectector, detection assembly, and method</u>
511 5,886,247	<u>T High sensitivity gas detection</u>
512 RE36,162	<u>T Whole-body dual-energy bone densitometry using a narrow angle fan beam to cover the entire body in successive scans</u>
513 5,884,234	<u>T Method for pulse shape regulation and discrimination in a nuclear spectroscopy system</u>
514 5,883,937	<u>T X-ray diagnostic apparatus</u>
515 5,883,388	<u>T Examining a diamond</u>
516 5,880,510	<u>T Graded layer passivation of group II-VI infrared photodetectors</u>
517 5,880,490	<u>T Semiconductor radiation detectors with intrinsic avalanche multiplication in self-limiting mode of operation</u>

- 518 [5,880,475](#) **T** [Scintillation fiber type radiation detector](#)
- 519 [5,880,375](#) **T** [Apparatus and method for measuring multi-phase flow](#)
- 520 [5,877,862](#) **T** [Laser system for cross-road measurement of motor vehicle exhaust gases](#)
- 521 [5,876,339](#) **T** [Apparatus for optical breast imaging](#)
- 522 [5,876,119](#) **T** [In-situ substrate temperature measurement scheme in plasma reactor](#)
- 523 [5,874,736](#) **T** [Axillary infrared thermometer and method of use](#)
- 524 [5,873,833](#) **T** [Ear thermometer radiation detector](#)
- 525 [5,873,392](#) **T** [Process for monitoring faults in textile webs](#)
- 526 [5,872,363](#) **T** [Automatic pole zero adjustment circuit for an ionizing radiation spectroscopy system](#)
- 527 [5,872,362](#) **T** [Radiation detector with remote temperature reference](#)
- 528 [5,872,359](#) **T** [Real-time monitor and control system and method for hydrogen peroxide vapor decontamination](#)
- 529 [5,871,449](#) **T** [Device and method for locating inflamed plaque in an artery](#)
- 530 [5,870,449](#) **T** [Operator console for article inspection systems](#)
- 531 [5,869,837](#) **T** [Radiation imaging panel](#)
- 532 [5,869,836](#) **T** [Scintillation detector with sleeved crystal boot](#)
- 533 [5,867,586](#) **T** [Apparatus and methods for fluorescent imaging and optical character reading](#)
- 534 [5,867,553](#) **T** [Computed tomography scanner with reduced power x-ray source](#)
- 535 [5,866,908](#) **T** [Reflector compensation for scintillator array with low temperature expansion](#)
- 536 [5,866,907](#) **T** [Ultralow background multiple photon detector](#)
- 537 [5,865,167](#) **T** [Method of living system organism diagnostics and apparatus for its realization](#)
- 538 [5,860,741](#) **T** [Absolute radiation thermometer](#)
- 539 [5,860,421](#) **T** [Apparatus and method for calibrating measurement systems](#)
- 540 [5,859,492](#) **T** [Electrode rod support for short arc lamp](#)
- 541 [5,857,463](#) **T** [Remotely controlled apparatus and system for tracking and locating a source of photoemissions](#)
- 542 [5,856,833](#) **T** [Optical sensor for ink jet printing system](#)
- 543 [5,854,820](#) **T** [Method and meter for measuring the composition of a multiphase fluid](#)
- 544 [5,854,489](#) **T** [Method and device for correction of spectrometric measurements in the gamma photon detection field](#)
- 545 [5,853,370](#) **T** [Optical system and method for non-invasive imaging of biological tissue](#)
- 546 [5,851,108](#) **T** [Electronic control sensor systems](#)
- 547 [5,850,836](#) **T** [Morphometric x-ray absorptiometry \(MXA\)](#)
- 548 [5,850,182](#) **T** [Dual wavelength fire detection method and apparatus](#)
- 549 [5,850,098](#) **T** [Uncooled amorphous YBaCuO thin film infrared detector](#)
- 550 [5,848,978](#) **T** [Surgical biopsy device](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
551 5,847,389	T Seed monitoring system for counting seeds as they are dispensed through seed tubes in an air seeding system
552 5,847,388	T Collimator for high takeoff angle energy dispersive spectroscopy (EDS) detectors
553 5,847,358	T Method and apparatus for removing material from metal workpieces moved relative to a laser removal tool
554 5,846,843	T Sensor using long range surface plasmon resonance with diffraction double-grating
555 5,846,535	T Methods for reducing tumor cell growth by using antibodies with broad tumor reactivity and limited normal tissue reactivity
556 5,846,513	T Tumor localization and removal system using penetratable detection probe and removal instrument
557 5,844,961	T Filmless digital x-ray system
558 5,844,674	T Virtual reality system with an optical position-sensing facility
559 5,843,140	T Tubular feedthrough system for hermetically sealed devices
560 5,841,833	T Dual-energy x-ray detector providing spatial and temporal interpolation
561 5,841,832	T Dual-energy x-ray detector providing spatial and temporal interpolation
562 5,841,830	T 3D CT fluoroscopy
563 5,841,689	T Non-volatile record carrier with magnetic quantum-optical reading effect and method for its manufacture
564 5,841,522	T Phase detector
565 5,841,142	T Process and system for determining exposure in airplanes

- 566 5,841,141 **T** Image reconstruction from V-projections acquired by Compton camera
- 567 5,841,137 **T** Duplicative detector sensor
- 568 5,841,059 **T** Projectile with an explosive load triggered by a target-sighting device
- 569 5,841,016 **T** Ultra-low level standard for concentration measurements
- 570 5,840,026 **T** Patient specific dosing contrast delivery systems and methods
- 571 5,838,765 **T** Whole-body x-ray bone densitometry using a narrow-angle fan beam, including variable fan beam displacement between scan passes
- 572 5,838,756 **T** Radiation computed tomography apparatus
- 573 5,838,451 **T** Optoelectronic spectral analysis system
- 574 5,838,009 **T** Variable angle multiple detector nuclear medicine gantry
- 575 5,836,692 **T** Differential radiation detector probe
- 576 5,835,562 **T** Medical radiological apparatus including optical crosshair device for patient positioning and forearm and spinal positioning aides
- 577 5,835,555 **T** X-ray bone densitometry apparatus with variable attenuation, modulation and collimation of penetrating radiation beam
- 578 5,835,225 **T** Surface properties detection by reflectance metrology
- 579 5,834,787 **T** Device for measuring flux and accumulated dose for an ion beam containing a radioactive element
- 580 5,834,780 **T** Scanning line source for gamma camera
- 581 5,834,779 **T** Method and apparatus for performing correction for random coincidences in a medical imaging system
- 582 5,833,603 **T** Implantable biosensing transponder
- 583 5,832,051 **T** Method and apparatus for radiological examination of cardiac phases of a patient
- 584 5,831,269 **T** Radiation detector element
- 585 5,831,268 **T** Sensing device for reflective clear material using infrared LED
- 586 5,829,270 **T** Cryogenics
- 587 5,828,720 **T** Exposure automatics for an X-ray apparatus
- 588 5,828,068 **T** Uncooled mercury cadmium telluride infrared devices with integral optical elements
- 589 5,827,771 **T** Readout backside processing for hybridization
- 590 5,827,182 **T** Multiple LED sets in oximetry sensors
- 591 5,826,201 **T** Antenna microwave shield for cellular telephone
- 592 5,825,032 **T** Radiographic apparatus and image processing method
- 593 5,823,960 **T** Imaging systems
- 594 5,822,629 **T** electronically controlled variable slit width focal plane shutter
- 595 5,822,390 **T** Apparatus for analyzing fluid flow
- 596 5,821,862 **T** Method and apparatus for measuring ice thickness on substrates using backscattering of gamma rays
- 597 5,821,598 **T** Uncooled amorphous YBaCuO thin film infrared detector
- 598 5,821,540 **T** Semiconductor radiation-detecting device
- 599 5,821,539 **T** Fast operating radiation detector and method for operating same
- 600 5,821,538 **T** System for the processing of pulses resulting from the interaction of a gamma particle with a CdTe radiation detector

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 601 5,821,533 **T** Automatic pulse top optimization circuit for an ionizing radiation spectroscopy system
- 602 5,820,558 **T** Optical techniques for examination of biological tissue
- 603 5,818,996 **T** Fiber-optic coupled diffuse reflectance probe
- 604 5,818,053 **T** Multi-module solid state radiation detector with continuous photoconductor layer and fabrication method
- 605 5,818,049 **T** Infrared gas spectrometer having a lid assembly with an integrated chopper and chopper motor
- 606 5,817,010 **T** Disposable sensor holder
- 607 5,815,330 **T** Radiation limiter and optical system incorporating the same
- 608 5,814,295 **T** Determination of lymph nodes enriched in tumor reactive cells their proliferation and their use in adoptive cellular therapy
- 609 5,813,985 **T** Apparatus and methods for providing attenuation guidance and tumor targeting for external beam radiation therapy administration
- 610 5,813,982 **T** Noncontacting portable infrared intra-ocular pressure sensor
- 611 5,812,270 **T** Window contamination detector
- 612 5,812,262 **T** Waveguide for radiation detection system
- 613 5,811,816 **T** Closed cycle gas cryogenically cooled radiation detector
- 614 5,811,815 **T** Dual-band multi-level microbridge detector
- 615 5,811,812 **T** Multiple-gas NDIR analyzer

- 616 5,811,809 **T** Nuclear event detector and threshold detector circuit therefor
- 617 5,810,307 **T** Explosion-proof swivel mounting bracket
- 618 5,809,104 **T** Method and device for measuring the content of bone mineral in the skeleton
- 619 5,808,734 **T** Method and apparatus for detecting impurities on plate surface
- 620 5,808,329 **T** Low light level imager with extended wavelength response employing atomic bonded (fused) semiconductor materials
- 621 5,807,494 **T** Gel compositions comprising silica and functionalized carbon products
- 622 5,805,664 **T** Imager control system with contact detector
- 623 5,805,659 **T** Method and apparatus for spiral scan region of interest imaging
- 624 5,804,832 **T** Digital array for radiographic imaging
- 625 5,804,825 **T** Fire detector having wide-range sensitivity
- 626 5,803,914 **T** Method and apparatus for displaying data in a medical imaging system
- 627 5,803,606 **T** Surface photothermic testing device
- 628 5,802,138 **T** Multisection imaging device
- 629 5,800,278 **T** Apparatus for signaling proper alignment of user's eye and object to be struck
- 630 5,798,670 **T** Active filter circuit
- 631 5,798,518 **T** Medical laser calibration system and method
- 632 5,796,109 **T** Unitized radiation detector assembly
- 633 5,794,355 **T** Rotationally actuated position sensor
- 634 5,793,160 **T** Platform-based multiple foil high current electrode attachment for medium pressure quartz lamps
- 635 5,793,092 **T** Thermoelectric radiation detectors based on perovskite doped films and superlattices
- 636 5,793,046 **T** Active cladding scintillating-fiber radiation detector
- 637 5,793,044 **T** Infrared radiation detector units and methods of assembling transducers in which said units are incorporated
- 638 5,793,043 **T** Method and apparatus for determining the alcohol concentration in a gas mixture
- 639 5,792,053 **T** Hybrid probe for tissue type recognition
- 640 5,790,183 **T** High-resolution panoramic television surveillance system with synoptic wide-angle field of view
- 641 5,789,753 **T** Stress tolerant bolometer
- 642 5,789,664 **T** Fluid dose, flow and coagulation sensor for medical instrument
- 643 5,789,660 **T** Multiple function airway adapter
- 644 5,784,507 **T** Integrated optical wavelength discrimination devices and methods for fabricating same
- 645 5,784,145 **T** Apparatus for determining pupil dimensions
- 646 5,784,023 **T** Speed detection method
- 647 5,783,829 **T** Energy and position sensitive radiation detectors
- 648 5,783,822 **T** Traceable well cement compositions and methods
- 649 5,783,804 **T** Reflectance method for accurate process calibration in semiconductor substrate heat treatment
- 650 5,782,974 **T** Method of depositing a thin film using an optical pyrometer

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
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Title

- 651 5,782,757 **T** Low-noise optical probes
- 652 5,781,606 **T** X-ray tomography system with substantially continuous radiation detection zone
- 653 5,781,142 **T** Method and apparatus for converting an analog measurement signal to a digital signal having reduced conversion error
- 654 5,780,985 **T** Deformable system
- 655 5,780,858 **T** Electromagnetic radiation imaging device using dual gate thin film transistors
- 656 5,780,856 **T** Radiation detector and method of detecting radiation
- 657 5,779,978 **T** Measuring assembly for luminescence analysis
- 658 5,778,045 **T** Single/dual-energy x-ray densitometry scanning, including operator selected scanning sequences
- 659 5,777,333 **T** Asymmetric radiation detector system
- 660 5,777,329 **T** Bolometer array spectrometer
- 661 5,777,328 **T** Ramped foot support
- 662 5,776,767 **T** Virtual DNA sequencer
- 663 5,774,365 **T** Document dispenser operator security
- 664 5,774,247 **T** Optical signal transceiver for use with diffusely transmitted optical radiation
- 665 5,773,831 **T** Patch coupled infrared photodetector
- 666 5,773,829 **T** Radiation imaging detector
- 667 5,773,821 **T** Radiological surveying as a method for mapping fossilized bone sites

- 668 [5,773,714](#) **T** [Scanner beam dynamic deflection measurement system and method](#)
- 669 [5,772,565](#) **T** [Heat sealer](#)
- 670 [5,771,272](#) **T** [X-ray densitometer detector calibration by beam flattening and continuous dark scanning](#)
- 671 [5,771,094](#) **T** [Film measurement system with improved calibration](#)
- 672 [5,771,092](#) **T** [Wavelength agile receiver with noise neutralization and angular localization capabilities \(WARNALOC\)](#)
- 673 [5,770,793](#) **T** [Method for determining the concentration of a substance in a gas](#)
- 674 [5,770,455](#) **T** [Methods and apparatus for synthesizing labeled combinatorial chemistry libraries](#)
- 675 [5,769,787](#) **T** [Medical scanning and treatment system and method](#)
- 676 [5,767,524](#) **T** [Optical device for determining the orientation of a solid body](#)
- 677 [5,767,518](#) **T** [Fiber optic x-ray exposure control sensor](#)
- 678 [5,764,684](#) **T** [Infrared thermocouple improvements](#)
- 679 [5,763,888](#) **T** [High temperature gas stream optical flame sensor and method for fabricating same](#)
- 680 [5,763,886](#) **T** [Two-dimensional imaging backscatter probe](#)
- 681 [5,763,882](#) **T** [Low cost night vision camera](#)
- 682 [5,760,889](#) **T** [Apparatus for the measurement of curvature of a surface](#)
- 683 [5,760,398](#) **T** [Infrared radiation detector having a reduced active area](#)
- 684 [5,760,397](#) **T** [Millimeter wave imaging system](#)
- 685 [5,759,513](#) **T** [Apparatus and process for preparing radioisotope-labeled reagent](#)
- 686 [5,758,969](#) **T** [Instrument for measuring the energy of optical radiation particularly laser radiation](#)
- 687 [5,758,968](#) **T** [Optically based method and apparatus for detecting a phase transition temperature of a material of interest](#)
- 688 [5,757,951](#) **T** [Correction of off-focal radiation](#)
- 689 [5,757,878](#) **T** [Detector arrangement for x-ray tomography system](#)
- 690 [5,757,477](#) **T** [Real time monitoring of medium parameters](#)
- 691 [5,757,040](#) **T** [Real-time semiconductor radiation detector](#)
- 692 [5,757,007](#) **T** [Segmented electrode radiation detector](#)
- 693 [5,757,006](#) **T** [Articulating detector array for a gamma camera](#)
- 694 [5,755,036](#) **T** [Compass device with light attenuating mask](#)
- 695 [5,754,673](#) **T** [Document image processing system including a first document path for the automated processing of documents and a second document path for the processing of documents requiring operator correction](#)
- 696 [5,753,935](#) **T** [Superconductive tunnel junction array radiation detector](#)
- 697 [5,753,918](#) **T** [Superior performance subassembly for scintillation detection and detectors employing the subassembly](#)
- 698 [5,752,322](#) **T** [Gimballed ouroboros compass device with digital logic](#)
- 699 [5,751,427](#) **T** [Optical gap measuring apparatus and method](#)
- 700 [5,751,215](#) **T** [Fire finding apparatus](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
701 5,751,005	T Low-crosstalk column differencing circuit architecture for integrated two-color focal plane arrays
702 5,750,991	T Method and apparatus for forming multidimensional attenuation correction data in tomography applications
703 5,750,926	T Hermetically sealed electrical feedthrough for use with implantable electronic devices
704 5,748,768	T Method and apparatus for correcting distortion in an imaging system
705 5,748,705	T X-ray bone densitometry
706 5,748,704	T Peripheral bone densitometer
707 5,748,692	T Rack loader and method for transuranic transfers into and out of storage
708 5,748,509	T Analysing a material sample
709 5,748,491	T Deconvolution method for the analysis of data resulting from analytical separation processes
710 5,747,806	T Method and apparatus for multi-spectral analysis in noninvasive nir spectroscopy
711 5,745,544	T Bone densitometer with film cassette
712 5,744,806	T Method for multisensor arrangements
713 5,744,803	T Radiation detector assembly and method with discrimination between vibration and radiation induced events
714 5,742,061	T Ionizing radiation detector having proportional microcounters
715 5,740,809	T Noninvasive infrared blood flow detector
716 5,739,533	T Thermal radiation detector having a spectral responsivity not dependent on

wavelength

- 717 5,738,440 **T** Combined emissivity and radiance measurement for the determination of the temperature of a radiant object
- 718 5,738,224 **T** Method and apparatus for the separation of materials using penetrating electromagnetic radiation
- 719 5,734,159 **T** Rotation sensor using a radiation emitter and detector and a duty cycle feedback loop
- 720 5,732,704 **T** Radiation based method locating and differentiating sentinel nodes
- 721 5,731,621 **T** Three band and four band multispectral structures having two simultaneous signal outputs
- 722 5,731,584 **T** Position sensitive particle sensor and manufacturing method therefor
- 723 5,731,583 **T** Folded optical path gas analyzer with cylindrical chopper
- 724 5,731,582 **T** Surface sensor device
- 725 5,731,296 **T** Selective vasodilation by continuous adenosine infusion
- 726 5,729,587 **T** X-ray exposure apparatus
- 727 5,729,016 **T** Low cost night vision system for nonmilitary surface vehicles
- 728 5,729,013 **T** Wellbore infrared detection device and method
- 729 5,728,949 **T** Fluid flow rate measuring circuit
- 730 5,728,585 **T** Capnometer
- 731 5,728,369 **T** Radioactive phosphorus labeling of proteins for targeted radiotherapy
- 732 5,728,042 **T** Medical appliance for ionizing radiation treatment having radiopaque markers
- 733 5,724,142 **T** Method and apparatus for measuring and controlling the volume of a liquid segment in a tube
- 734 5,724,135 **T** Hyper-spectral imaging using rotational spectro-tomography
- 735 5,724,131 **T** Integrated emission microscope for panchromatic imaging, continuous wavelength spectroscopy and selective area spectroscopic mapping
- 736 5,723,866 **T** Method for yield and performance improvement of large area radiation detectors and detectors fabricated in accordance with the method
- 737 5,722,405 **T** Method and apparatus for acquisition and processing of event data in semi list mode
- 738 5,721,759 **T** Method and equipment for determining the content of an element
- 739 5,721,430 **T** Passive and active infrared analysis gas sensors and applicable multichannel detector assemblies
- 740 5,721,429 **T** Self-focusing detector pixel structure having improved sensitivity
- 741 5,719,948 **T** Apparatus and methods for fluorescent imaging and optical character reading
- 742 5,719,414 **T** Photoelectric conversion semiconductor device with insulation film
- 743 5,719,401 **T** Position-sensitive electromagnetic radiation detectors
- 744 5,719,397 **T** Target material detection
- 745 5,717,735 **T** Medical radiological apparatus including optical crosshair device for patient positioning and forearm and spinal positioning aides
- 746 5,717,217 **T** Method for determining thickness, degree of cure and other properties of a polymeric coating
- 747 5,717,216 **T** Thickness gauging using ultraviolet light absorption
- 748 5,717,214 **T** X-ray beam position monitor and its position measurement method
- 749 5,717,212 **T** Three detector head gamma camera system with independently circumferentially

positionable detector heads

750 5,717,209 **T** System for remote transmission of spectral information through communication optical fibers for real-time on-line hydrocarbons process analysis by near infra red spectroscopy

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PAT.
NO.

Title

- 751 [5,717,208](#) [T](#) [Staring IR-FPA with dither-locked frame circuit](#)
- 752 [5,716,595](#) [T](#) [Intraperative, intravascular and endoscopic tumor and lesion detection and therapy with monovalent antibody fragments](#)
- 753 [5,715,820](#) [T](#) [X-ray bone densitometry using multiple pass scanning with image blending](#)
- 754 [5,714,763](#) [T](#) [Method and apparatus for optical alignment of a measuring head in an X-Y plane](#)
- 755 [5,714,759](#) [T](#) [Optical system with an extended, imaged source](#)
- 756 [5,712,973](#) [T](#) [Wireless proximity containment security](#)
- 757 [5,712,895](#) [T](#) [Rotational digital subtraction angiography phantom](#)
- 758 [5,710,622](#) [T](#) [Fluid dose, flow and coagulation sensor for medical instrument](#)
- 759 [5,710,437](#) [T](#) [Radiation detecting device using superconducting tunnel junction and method of fabricating the same](#)
- 760 [5,710,418](#) [T](#) [Optical image sensor](#)
- 761 [5,709,473](#) [T](#) [Temperature sensor](#)
- 762 [5,708,392](#) [T](#) [Method and apparatus for providing limiting transimpedance amplification](#)
- 763 [5,707,879](#) [T](#) [Neutron detector based on semiconductor materials](#)
- 764 [5,706,324](#) [T](#) [X-ray computed tomography apparatus having marks for geometrical image correlation](#)
- 765 [5,706,120](#) [T](#) [Device for controlling an amount of light allowed to reach a photosensitive surface](#)
- 766 [5,705,819](#) [T](#) [Emission CT apparatus](#)
- 767 [5,705,817](#) [T](#) [Apparatus for optical monitoring of a thread for irregularities](#)

- 768 [5,705,815](#) **T** [Device for the detection of liquid surfaces](#)
- 769 [5,705,788](#) **T** [Process for treatment of materials with diode radiation](#)
- 770 [5,703,377](#) **T** [Apparatus for the inspection of cylindrical objects having a borescope device](#)
- 771 [5,703,362](#) **T** [Method for nondestructive/noncontact detection and quantification of alpha case on a surface of a workpiece made of titanium or a titanium-based alloy](#)
- 772 [5,703,229](#) **T** [Method for tagging thermoplastic materials with near infrared fluorophores](#)
- 773 [5,701,360](#) **T** [Fourier reconstruction of computer tomography images which represent a selectable region of the examination subject](#)
- 774 [5,701,326](#) **T** [Laser scanning system with optical transmit/reflect mirror having reduced received signal loss](#)
- 775 [5,699,400](#) **T** [Operator console for article inspection systems](#)
- 776 [5,698,850](#) **T** [Method of detecting nonuniformity of sensitivity of radiation detector](#)
- 777 [5,698,849](#) **T** [Optical encoder with alignment of source, detector, and modulator](#)
- 778 [5,696,367](#) **T** [Charging batteries of electric vehicles](#)
- 779 [5,694,933](#) **T** [Apparatus and methods for determining spatial coordinates of radiolabelled tissue using gamma-rays and associated characteristic X-rays](#)
- 780 [5,694,930](#) **T** [Device for qualitative and/or quantitative analysis of a sample](#)
- 781 [5,693,949](#) **T** [Method and device for the continuous checking of the activity of dust](#)
- 782 [5,693,947](#) **T** [Radiation detectors](#)
- 783 [5,693,944](#) **T** [Gas analyzer cuvettes](#)
- 784 [5,692,029](#) **T** [Detection of concealed explosives and contraband](#)
- 785 [5,691,211](#) **T** [Method for gettering noble metals from mineral acid solution](#)
- 786 [5,686,995](#) **T** [Scale pattern arrangement](#)
- 787 [5,686,733](#) **T** [Megavoltage imaging method using a combination of a photoreceptor with a high energy photon converter and intensifier](#)
- 788 [5,686,721](#) **T** [Position-transmitting electromagnetic quanta and particle radiation detector](#)
- 789 [5,686,674](#) **T** [System for characterizing surfaces of pipes, ducts or similar structures](#)
- 790 [5,686,659](#) **T** [Fluid dose flow and coagulation sensor for medical instrument](#)
- 791 [5,686,047](#) **T** [Evaluation instrument for test strips with a transport unit for test strips](#)
- 792 [5,684,720](#) **T** [Method and apparatus for adaptively producing noise-reduced digital image sequences](#)
- 793 [5,684,303](#) **T** [Pyroelectric infrared radiation detector](#)
- 794 [5,684,135](#) **T** [Conjugate compounds containing aza-macro-cycles and processes for their preparation](#)
- 795 [5,682,888](#) **T** [Apparatus and system for detecting and locating photon emissions with remote switch control](#)
- 796 [5,682,413](#) **T** [Rotational angiography dye and mask image acquisition and synchronization](#)
- 797 [5,682,411](#) **T** [Imaging system](#)
- 798 [5,680,410](#) **T** [Modified semiconductor laser diode having an integrated temperature control element](#)
- 799 [5,679,956](#) **T** [Enhanced vehicle radiation monitoring system and method](#)
- 800 [5,678,751](#) **T** [Robust spectroscopic optical probe](#)

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SPEC/"radiation: 4072 patents.

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 801 5,677,539 **T** Semiconductor radiation detector with enhanced charge collection
- 802 5,677,536 **T** Gamma camera with on the fly calibration for PMT drift
- 803 5,675,191 **T** Transmission brake disengagement apparatus for improving the starting consistency of a drag race car
- 804 5,675,151 **T** Distribution type detector using scintillation fibers
- 805 5,673,692 **T** Single site, multi-variable patient monitor
- 806 5,673,300 **T** Method of registering a radiation treatment plan to a patient
- 807 5,673,101 **T** Method of repetitively imaging a mask pattern on a substrate, and apparatus for performing the method
- 808 5,672,903 **T** Uncooled ybacuo thin film infrared detector
- 809 5,672,876 **T** Method and apparatus for measuring distribution of radioactive nuclide in subject
- 810 5,672,545 **T** Thermally matched flip-chip detector assembly and method
- 811 5,672,430 **T** CVD diamond radiation detector
- 812 5,670,817 **T** Monolithic-hybrid radiation detector/readout
- 813 5,670,784 **T** High temperature gas stream optical flame sensor
- 814 5,670,780 **T** Device providing real-time orientation and direction of an object
- 815 5,668,851 **T** X-ray Tomography system with stabilized detector response
- 816 5,668,539 **T** Thermal emitted radiation detecting device
- 817 5,668,376 **T** Double radiation source assembly and transducer

- 818 [5,667,300](#) **T** [Non-contact photothermal method for measuring thermal diffusivity and electronic defect properties of solids](#)
- 819 [5,666,394](#) **T** [Thickness measurement gauge](#)
- 820 [5,666,393](#) **T** [Method and apparatus for reducing afterglow noise in an X-ray inspection system](#)
- 821 [5,666,105](#) **T** [Personal radiation hazard meter](#)
- 822 [5,665,971](#) **T** [Radiation detection and tomography](#)
- 823 [5,665,151](#) **T** [Method for making article with and detecting water based inks containing near infrared fluorophores](#)
- 824 [5,663,657](#) **T** [Determining long minority carrier diffusion lengths](#)
- 825 [5,663,050](#) **T** [Sensor for antigen-antibody reactions](#)
- 826 [5,662,818](#) **T** [Method of producing a pyroelectric infrared radiation detector](#)
- 827 [5,662,103](#) **T** [Subcutaneous radiation reflection probe](#)
- 828 [5,661,293](#) **T** [Photodiode array with photodiode/extraction diode combinations with dark current thereof regulated to zero](#)
- 829 [5,660,627](#) **T** [Method of growing lutetium oxyorthosilicate crystals](#)
- 830 [5,657,404](#) **T** [Robust spectroscopic optical probe](#)
- 831 [5,657,369](#) **T** [X-ray bone densitometry system having forearm positioning assembly](#)
- 832 [5,656,813](#) **T** [Apparatus for imaging gas](#)
- 833 [5,654,997](#) **T** [Ultrasonic ranging system for radiation imager position control](#)
- 834 [5,654,995](#) **T** [X-ray computed tomography apparatus](#)
- 835 [5,654,899](#) **T** [Radiation instrument and method to measure radon and thoron concentration, air change rate and source emanation rate magnitudes](#)
- 836 [5,654,551](#) **T** [Method and apparatus for the measurement of the mass flow rates of fluid components in a multiphase slug flow](#)
- 837 [5,653,239](#) **T** [Continuous temperature monitor](#)
- 838 [5,653,238](#) **T** [Radiation detector probe](#)
- 839 [5,652,681](#) **T** [Grism \(grating-prism combination\)](#)
- 840 [5,652,586](#) **T** [Charge integrating-type analog to digital converter employing rapid charge neutralization and N-bit feedback](#)
- 841 [5,652,430](#) **T** [Direct radiographic imaging panel](#)
- 842 [5,651,904](#) **T** [Method for removing material from metal workpieces moved relative to the removal tool](#)
- 843 [5,651,903](#) **T** [Method and apparatus for evaluating laser welding](#)
- 844 [5,651,044](#) **T** [Capacitive proximity detector for radiation imager position control](#)
- 845 [5,650,869](#) **T** [Point relay scanner utilizing ellipsoidal mirrors](#)
- 846 [5,650,624](#) **T** [Passive infrared analysis gas sensor](#)
- 847 [5,650,623](#) **T** [Perimeter sensing device](#)
- 848 [5,650,609](#) **T** [Seed monitoring system for counting seeds as they are dispensed through a seed planting tube](#)
- 849 [5,650,337](#) **T** [Monolithic optoelectronic and electronic structures](#)
- 850 [5,650,175](#) **T** [Anti-inflammatory factor, method of isolation, and use](#)

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 851 5,649,576 **T** Partitioning device
- 852 5,648,657 **T** Sensor for measuring a movement characteristic of an object
- 853 5,647,363 **T** Ambulatory clearance function monitor
- 854 5,647,360 **T** Digital subtraction angiography for 3D diagnostic imaging
- 855 5,647,018 **T** Method and apparatus for generating images
- 856 5,646,421 **T** Multicolor voltage tunable quantum well intersubband infrared photodetector
- 857 5,646,410 **T** System and method for validating the detection signal of a measuring chain with a wide band of nuclear radiations
- 858 5,646,409 **T** Method of suppressing extraneous radiation effects in radioactive measuring methods
- 859 5,646,407 **T** Process of producing an encapsulated detector
- 860 5,645,798 **T** Test elements in sealed chambers for analyzing compounds contained in liquid samples
- 861 RE35,554 **T** Radiation detector with temperature display
- 862 5,641,973 **T** Semiconductor piezoelectric photoelectric converting device and imaging device using such semiconductor photoelectric converting device
- 863 5,641,419 **T** Method and apparatus for optical temperature control
- 864 5,640,957 **T** Ultraviolet radiation protection evaluator
- 865 5,640,764 **T** Method of forming a tubular feed-through hermetic seal for an implantable medical device
- 866 5,640,017 **T** Remote radiation detection device with inorganic scintillating detecting crystal and

fiber optic

- 867 5,638,419 **T** Spiral-helical scan computed tomography apparatus
- 868 5,638,414 **T** Method for detecting failure of nuclear reactor fuel
- 869 5,638,166 **T** Apparatus and method for rapid detection of explosives residue from the deflagration signature thereof
- 870 5,635,718 **T** Multi-module radiation detecting device and fabrication method
- 871 5,635,717 **T** Apparatus for detecting and locating radioactive biological markers
- 872 5,635,714 **T** Data reduction system for real time monitoring of radiation machinery
- 873 5,635,706 **T** Direct conversion X-ray/gamma-ray photocathode
- 874 5,635,025 **T** Digester system containing a single vessel serving as all of a chip bin, steaming vessel, and chip chute
- 875 5,634,718 **T** Particle calorimeter with normal metal base layer
- 876 5,633,906 **T** X-ray computed tomography apparatus of the electron beam type with electron beam intensity measuring capacity
- 877 5,633,718 **T** Surface curvature measurement
- 878 5,633,584 **T** Three-dimensional detection, dosimetry and imaging of an energy field by formation of a polymer in a gel
- 879 5,633,498 **T** Thermodynamically optimal infrared collector with directional reduction of concentration
- 880 5,633,492 **T** Real time monitoring of changes in objects or media
- 881 5,632,414 **T** No-touch fluid dispenser
- 882 5,631,945 **T** Slit radiography apparatus
- 883 5,631,489 **T** Optoelectronic device
- 884 5,629,971 **T** Scan speed for transmission exposure reduction in a nuclear medicine camera
- 885 5,629,525 **T** Plutonium assaying
- 886 5,629,517 **T** Sensor element array having overlapping detection zones
- 887 5,629,515 **T** Radiation measuring system having scintillation detectors coupled by optical fibers for multipoint measurement
- 888 5,628,323 **T** Ear thermometer radiation detector
- 889 5,627,874 **T** X-ray spectroscopic analysis of powder samples using a window-less cell system
- 890 5,627,521 **T** Personal microwave and radio frequency detector
- 891 5,627,377 **T** Single carrier-type solid-state radiation detector device
- 892 5,627,372 **T** Measuring on-line tobacco rod basis weight using combined high accuracy/slow response and low accuracy/fast response gauges
- 893 5,627,367 **T** Radiation beam calibrator
- 894 5,625,660 **T** Image reconstruction from helical partial cone-beam data
- 895 5,625,455 **T** Rotating analyzer ellipsometer and ellipsometry technique
- 896 5,625,342 **T** Plural-wavelength flame detector that discriminates between direct and reflected radiation
- 897 5,625,190 **T** Forward projection algorithm
- 898 5,624,590 **T** Semiconductor processing technique, including pyrometric measurement of radiantly heated bodies and an apparatus for practicing this technique
- 899 5,622,659 **T** Method of preparing doped lithium fluoride thermoluminescent radiation detector

900 5,621,238 **T** Narrow band semiconductor detector

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SPEC/"radiation: 4072 patents.

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PAT. NO.	Title
901 5,621,220	T Apparatus for evaluating measuring values
902 5,621,219	T Device for scanning the geometrical pattern of a mark of an object
903 5,621,214	T Radiation beam scanner
904 5,621,213	T System and method for monitoring a stack gas
905 5,619,411	T Enhanced vertical resolution processing of dual-spaced density tools
906 5,619,039	T Device for the detection of electromagnetic waves and, in particular, of infrared radiation
907 5,618,461	T Reflectance method for accurate process calibration in semiconductor wafer heat treatment
908 5,616,923	T Gas analyzer cuvettes
909 5,616,922	T Optically coupled infrared transmitting composite internal reflecting elements
910 5,614,720	T Mobile, multi-mode apparatus and method for nondestructively inspecting components of an operating system
911 5,614,716	T Alternating current method and apparatus for ambient temperature compensation for modulated energy sensors
912 5,614,008	T Water based inks containing near infrared fluorophores
913 5,613,777	T Improvements relating to radiation thermometers
914 5,612,782	T Calibration method and calibration unit for calibrating a spectrometric device based upon two calibration samples
915 5,612,780	T Device for detecting light emission from optical fiber

- 916 5,612,032 **T** Method for diagnosing tumors using mouse monoclonal antibodies
- 917 5,611,026 **T** Combining a priori data with partial scan data to project three dimensional imaging of arbitrary objects with computerized tomography
- 918 5,610,968 **T** High capacity cooling system for CT gantry
- 919 5,610,963 **T** Methods and systems for determining the z-axis profile of a detector in a CT system
- 920 5,610,401 **T** Radiant ray-detector and method for producing same
- 921 5,610,400 **T** Spectroscopic measuring sensor for the analysis of mediums
- 922 5,610,394 **T** Rotation monitor disturbance neutralization system
- 923 5,609,793 **T** Fluorescent substance, method for production thereof, radiation detector using the fluorescent substance, and X-ray CT apparatus using the radiation detector
- 924 5,608,777 **T** Slit radiography apparatus
- 925 5,608,221 **T** Multi-head nuclear medicine camera for dual SPECT and PET imaging with nonuniform attenuation correction
- 926 5,608,220 **T** Infrared intrusion detector with a multi-layer mirror
- 927 5,608,219 **T** Device for detecting gas by infrared absorption
- 928 5,608,039 **T** Single chain B3 antibody fusion proteins and their uses
- 929 5,606,171 **T** Method for determining thickness, degree of cure and other properties of a polymeric coating or film
- 930 5,606,165 **T** Square anti-symmetric uniformly redundant array coded aperture imaging system
- 931 5,604,778 **T** Spiral scan computed tomography apparatus with multiple x-ray sources
- 932 5,604,755 **T** Memory system reset circuit
- 933 5,604,695 **T** Analog high resolution laser irradiation detector (HARLID)
- 934 5,604,483 **T** Portable personal security device
- 935 5,603,414 **T** Detecting diamonds in a rock sample
- 936 5,602,897 **T** High-voltage power supply for x-ray tubes
- 937 5,602,475 **T** Laser pumped magnetometer
- 938 5,602,395 **T** Gamma camera having partial septas and moving septas for positron emission tomography (PET)
- 939 5,601,479 **T** Method and apparatus for decontaminating structures
- 940 5,600,700 **T** Detecting explosives or other contraband by employing transmitted and scattered X-rays
- 941 5,600,303 **T** Detection of concealed explosives and contraband
- 942 5,598,084 **T** Charging batteries of electric vehicles
- 943 5,598,003 **T** Large field of view transmission and small field of view emission scan within gamma camera system
- 944 5,596,199 **T** Passive solid state microdosimeter with electronic readout
- 945 5,596,197 **T** Dual synchronized sliding transmission detection windows for dual transmission line sources
- 946 5,592,524 **T** Universal electrical interface for digital spotfilm product
- 947 5,592,523 **T** Two dimensional detector array for CT scanners
- 948 5,591,973 **T** Signal processor for infrared camera
- 949 5,591,644 **T** Sensitive on line assay of chromatographic effluent
- 950 5,590,656 **T** Application of peptide/cell receptor kinetics utilizing radiolabeled somatostatin

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[SPEC/"radiation detector" ANDNOT GOVT/Governm](#)

PAT. NO.	Title
951 5,589,705	T Real-time semiconductor radiation detector
952 5,589,631	T Leak detection with non-toxic liquids
953 5,585,634	T Attenuated total reflectance sensing
954 5,585,632	T Wide-angle infrared cloud imager
955 5,583,340	T Coupling apparatus for multimode infrared detectors
956 5,582,248	T Reversal-resistant apparatus for tool orientation in a borehole
957 5,581,322	T Photographic processing apparatus
958 5,581,236	T Methods and apparatus for intrusion detection having improved immunity to false alarms
959 5,581,087	T Radiation detector
960 5,581,084	T Simultaneous two color IR detector having common middle layer metallic contact
961 5,581,079	T Epithermal neutron detector having enhanced efficiency
962 5,581,024	T Downhole depth correlation and computation apparatus and methods for combining multiple borehole measurements
963 5,578,828	T Flame sensor window coating compensation
964 5,578,814	T Sensor device for storing electromagnetic radiation and for transforming such into electric signals
965 5,577,864	T Apparatus relating to the linings of pipelines and passageways
966 5,577,501	T Computed tomography apparatus with compensation for smoothing which occurs in interpolation of data

- 967 [5,576,541](#) **T** [Apparatus for measuring the basis weight](#)
- 968 [5,574,286](#) **T** [Solar-blind radiation detector](#)
- 969 [5,574,285](#) **T** [Electromagnetic radiation detector and its production process](#)
- 970 [5,574,284](#) **T** [Energy resolving X-ray detector](#)
- 971 [5,572,312](#) **T** [Arrangement for calibration of at least one radiation-sensitive detector means](#)
- 972 [5,572,109](#) **T** [Charging batteries of electric vehicles](#)
- 973 [5,572,060](#) **T** [Uncooled YBaCuO thin film infrared detector](#)
- 974 [5,572,034](#) **T** [Fiber optic plates for generating seamless images](#)
- 975 [5,570,404](#) **T** [Method and apparatus for editing abdominal CT angiographic images for blood vessel visualization](#)
- 976 [5,570,400](#) **T** [On line sipping air delivery system](#)
- 977 [5,569,993](#) **T** [Charging batteries of electric vehicles](#)
- 978 [5,569,924](#) **T** [Transformable dual head spect camera system](#)
- 979 [5,569,912](#) **T** [Optical velocity measuring with efficient use of radiation passing through patterns on discs](#)
- 980 [5,569,630](#) **T** [Composites for glass](#)
- 981 [5,568,978](#) **T** [Optical apparatus and method for measuring temperature of a substrate material with a temperature dependent band gap](#)
- 982 [5,568,532](#) **T** [Examination system utilizing ionizing radiation and a flexible, miniature radiation detector probe](#)
- 983 [5,567,975](#) **T** [Group II-VI radiation detector for simultaneous visible and IR detection](#)
- 984 [5,565,980](#) **T** [Apparatus for the detection of surface defects](#)
- 985 [5,565,755](#) **T** [Charging batteries of electric vehicles](#)
- 986 [5,565,365](#) **T** [Assay flow apparatus and method](#)
- 987 [5,564,419](#) **T** [Method of photometric in vitro determination of the content of oxygen in a blood sample](#)
- 988 [5,563,924](#) **T** [X-ray apparatus having an adjustable primary radiation diaphragm](#)
- 989 [5,563,700](#) **T** [Method and apparatus for testing the material integrity of a converted can end](#)
- 990 [5,563,405](#) **T** [Staring IR-FPA with on-FPA adaptive dynamic range control electronics](#)
- 991 [5,561,593](#) **T** [Z-interface-board](#)
- 992 [5,559,845](#) **T** [Computed tomography apparatus with a rotating anode x-ray tube and method for operating same](#)
- 993 [5,559,422](#) **T** [Wall transformer](#)
- 994 [5,559,336](#) **T** [Integrated LPE-grown structure for simultaneous detection of infrared radiation in two bands](#)
- 995 [5,559,335](#) **T** [Rotating and warping projector/backprojector for converging-beam geometries](#)
- 996 [5,557,422](#) **T** [Recording method and apparatus for programming a recording schedule](#)
- 997 [5,557,399](#) **T** [Optical gap measuring apparatus and method](#)
- 998 [5,553,714](#) **T** [Method for detecting and separating thermoplastic containers with near infrared fluorosphores](#)
- 999 [5,553,299](#) **T** [Programming/reprogramming a point to point communication apparatus](#)
- 1000 [5,552,608](#) **T** [Closed cycle gas cryogenically cooled radiation detector](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
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- | | | |
|------|------------------|--|
| 1001 | <u>5,552,606</u> | <u>T Variable filters used with radiation source to reduce unobstructed detector area</u> |
| 1002 | <u>5,552,605</u> | <u>T Motion correction based on reprojection data</u> |
| 1003 | <u>5,551,244</u> | <u>T Hybrid thermoelectric/Joule-Thomson cryostat for cooling detectors</u> |
| 1004 | <u>5,550,380</u> | <u>T Radiation image detecting apparatus including bundled optical fibers</u> |
| 1005 | <u>5,550,377</u> | <u>T Technique for balancing anger cameras using an externally irradiated crystal and single tube data</u> |
| 1006 | <u>5,549,756</u> | <u>T Optical pyrometer for a thin film deposition system</u> |
| 1007 | <u>5,549,162</u> | <u>T Electric wireline formation testing tool having temperature stabilized sample tank</u> |
| 1008 | <u>5,548,626</u> | <u>T Apparatus for and method of establishing a density profile through the thickness of a panel</u> |
| 1009 | <u>5,548,122</u> | <u>T Radiation detector</u> |
| 1010 | <u>5,546,358</u> | <u>T Device for assessing an impact of a projectile with a target using optical radiation</u> |
| 1011 | <u>5,546,120</u> | <u>T Autostereoscopic display system using shutter and back-to-back lenticular screen</u> |
| 1012 | <u>5,545,900</u> | <u>T Radiation analysis apparatus</u> |
| 1013 | <u>5,545,899</u> | <u>T Solid state radiation detection panel having tiled photosensitive detectors arranged to minimize edge effects between tiles</u> |
| 1014 | <u>5,545,896</u> | <u>T Optically immersed semiconductor photodetectors</u> |
| 1015 | <u>5,545,039</u> | <u>T Method and apparatus for preparing tooth or modifying dental restoration</u> |
| 1016 | <u>5,544,478</u> | <u>T Optical sensing of combustion dynamics</u> |
| 1017 | <u>5,544,215</u> | <u>T Digital angiography system with automatically determined frame rates</u> |

- 1018 [5,543,687](#) **T** [Hydrogen-gas discharge lamp](#)
- 1019 [5,543,622](#) **T** [Method for determining data normalization factors for image reconstruction](#)
- 1020 [5,543,617](#) **T** [Method of measuring flow velocities using tracer techniques](#)
- 1021 [5,543,329](#) **T** [Sensor for antigen-antibody reactions](#)
- 1022 [5,542,302](#) **T** [Turbine wheel flow measuring transducer](#)
- 1023 [5,542,194](#) **T** [Silicon carbide body for radiating far-infrared radiation, drying apparatus including the body, and firing apparatus including the body](#)
- 1024 [5,541,418](#) **T** [Inspection of cylindrical objects](#)
- 1025 [5,541,415](#) **T** [Self-calibrating radiation detectors for measuring the areal extent of contamination](#)
- 1026 [5,539,679](#) **T** [Linearization scheme for optical measurement systems](#)
- 1027 [5,539,208](#) **T** [Surface radiation detector](#)
- 1028 [5,536,943](#) **T** [Method and apparatus for examining an object](#)
- 1029 [5,536,938](#) **T** [Pulsed neutron decay logging](#)
- 1030 [5,534,700](#) **T** [Optical spectrometer system having a curved reflective imaging slit body](#)
- 1031 [5,534,504](#) **T** [Treating myocardial infarction by administration of a thrombolytic agent together with adenosine](#)
- 1032 [5,534,445](#) **T** [Method of fabricating a polysilicon thin film transistor](#)
- 1033 [5,533,088](#) **T** [Method of compensating for radiation scatter in an x-ray imaging system](#)
- 1034 [5,532,944](#) **T** [Multi-channel analysis system and method using digital signal processing](#)
- 1035 [5,532,490](#) **T** [Displaced center-of-rotation fan-beam tomography for cardiac imaging](#)
- 1036 [5,531,074](#) **T** [Electronic device freezed by intermittently driven refrigerator](#)
- 1037 [5,530,731](#) **T** [Spiral scan computed tomography apparatus and method for operating same](#)
- 1038 [5,530,512](#) **T** [Autofocus camera](#)
- 1039 [5,530,248](#) **T** [Method of and apparatus for improving gamma camera image](#)
- 1040 [5,530,221](#) **T** [Apparatus for temperature controlled laser sintering](#)
- 1041 [5,529,755](#) **T** [Apparatus for measuring a glucose concentration](#)
- 1042 [5,528,649](#) **T** [Method of calibrating a radiological system and of measuring the equivalent thickness of an object](#)
- 1043 [5,528,041](#) **T** [Radiation detector with remote temperature reference](#)
- 1044 [5,528,035](#) **T** [Digital signal processing system for removing DC bias in the output of pyroelectric and similar detectors](#)
- 1045 [5,527,565](#) **T** [Method of manufacturing a radiation sensor element](#)
- 1046 [5,525,801](#) **T** [Two-color photo-conductive linear detector](#)
- 1047 [5,525,527](#) **T** [Process for producing a solid state radiation detector](#)
- 1048 [5,525,518](#) **T** [Method of photometric in vitro determination of a blood gas parameter in a blood sample](#)
- 1049 [5,523,744](#) **T** [Device for testing the operation of smoke detectors](#)
- 1050 [5,522,255](#) **T** [Fluid dose, flow and coagulation sensor for medical instrument](#)

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SPEC/"radiation: 4072 patents.

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1051 <u>5,521,930</u>	<u>T Device for injection-seeding, frequency-shifting, and q-switching a laser source</u>
1052 <u>5,521,657</u>	<u>T Method and system for topographic measurement by measuring the distance between a rigid reference member and a surface of an eye</u>
1053 <u>5,521,387</u>	<u>T Radiation detector employing solid-state scintillator material and preparation methods therefor</u>
1054 <u>5,519,489</u>	<u>T Vehicle alignment system</u>
1055 <u>5,519,247</u>	<u>T Detector circuit with a semiconductor diode operating as a detector and with an amplifier circuit integrated with the diode</u>
1056 <u>5,519,206</u>	<u>T Micro-mechanical mirror array and optical imaging assembly for improved picture resolution</u>
1057 <u>5,518,658</u>	<u>T Phosphor having reduced afterglow and method for manufacturing same</u>
1058 <u>5,518,124</u>	<u>T Method and apparatus for the separation of materials using penetrating electromagnetic radiation</u>
1059 <u>5,515,169</u>	<u>T Spectral wavelength discrimination system and method for using</u>
1060 <u>5,514,873</u>	<u>T X-ray apparatus having a cable-free portable radiation detector with a housing for the acceptance of a radiation transducer</u>
1061 <u>5,514,865</u>	<u>T Dither image scanner with compensation for individual detector response and gain correction</u>
1062 <u>5,513,922</u>	<u>T Printer having a removable control panel</u>
1063 <u>5,512,760</u>	<u>T Optical height detector with coaxial irradiation and image axes and plural detectors</u>

spaced along the image axis

- 1064 5,512,754 **T** Filtered collimator for dual isotope medical imaging
- 1065 5,512,246 **T** Method and means for detecting polyhydroxyl compounds
- 1066 5,511,549 **T** Normalizing and calibrating therapeutic radiation delivery systems
- 1067 5,511,106 **T** X-ray diagnostics installation for producing x-ray exposures of body parts of a patient
- 1068 5,510,626 **T** System and method for conditioning a radiation detector
- 1069 5,509,622 **T** Protective cover, radiation shield and test unit for helicopter blade crack indicator
- 1070 5,508,829 **T** LTG AlGaAs non-linear optical material and devices fabricated therefrom
- 1071 5,507,291 **T** Method and an associated apparatus for remotely determining information as to person's emotional state
- 1072 5,506,877 **T** Mammography breast compression device and method
- 1073 5,506,702 **T** Holographic optical element providing an artificial star for an optical system
- 1074 5,506,685 **T** Method and apparatus for determining the absorption of electromagnetic radiation by a gas
- 1075 5,504,792 **T** Method and system for masking cone beam projection data generated from either a region of interest helical scan or a helical scan
- 1076 5,504,791 **T** Annular anode x-ray computed tomography apparatus with a single magnet system for guiding and deflecting the electron beam
- 1077 5,504,575 **T** SLM spectrometer
- 1078 5,504,573 **T** Apparatus and method for analyzing particles deposited on a substrate using substantially continuous profile data
- 1079 5,504,302 **T** Method and device for the production of optical lenses or the like
- 1080 5,502,562 **T** Method and apparatus for absolute interferometry using a measurement beam and a reference beam having parallel wave fronts and sharing a single beam path
- 1081 5,502,308 **T** Diffusion-type gas sample chamber
- 1082 5,502,300 **T** Compound optically tipped detectors
- 1083 5,501,767 **T** Method for gettering noble metals from mineral acid solution
- 1084 5,501,755 **T** Large area multi-electrode radiation detector substrate
- 1085 5,499,497 **T** Temperature detector and control for an igniter
- 1086 5,496,997 **T** Sensor incorporating an optical fiber and a solid porous inorganic microsphere
- 1087 5,494,834 **T** Optoelectronic semiconductor device comprising a waveguide and method of manufacturing such a device
- 1088 5,493,601 **T** Radiographic calibration phantom
- 1089 5,493,596 **T** High-energy X-ray inspection system
- 1090 5,493,177 **T** Sealed micromachined vacuum and gas filled devices
- 1091 5,493,124 **T** Apparatus for measuring radiation transmittance of a process fluid
- 1092 5,493,122 **T** Energy resolving x-ray detector
- 1093 5,490,008 **T** Non-contacting optical data transmission system
- 1094 5,489,983 **T** Sensor for vehicle alignment system and apparatus using same
- 1095 5,489,781 **T** Dual modality detector
- 1096 5,489,779 **T** Method for optimizing energy spectrum data from scintillation type radiation detectors

- 1097 [5,489,414](#) **T** [System for analyzing compounds contained in liquid samples](#)
- 1098 [5,488,832](#) **T** [Matched thermal expansion support system](#)
- 1099 [5,488,471](#) **T** [Sensors for vehicle alignment system and apparatus using same](#)
- 1100 [5,486,701](#) **T** [Method and apparatus for measuring reflectance in two wavelength bands to enable determination of thin film thickness](#)
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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1101 5,485,501	T Method for the operation of an automatic x-ray exposure unit
1102 5,485,276	T Multi-pass optical cell species concentration measurement system
1103 5,483,960	T Morphometric X-ray absorptiometry (MXA)
1104 5,483,337	T Spectrometer with selectable radiation from induction plasma light source
1105 5,483,080	T Method and device for measuring and controlling cell density in microbiological culture
1106 5,483,071	T Two-dimensional radiation detector
1107 5,482,040	T Biostaging of adenocarcinomas utilizing radiolabeled tumor-associated glycoprotein antibodies
1108 5,481,115	T Electronic calibration of single photon emission computed tomography cameras
1109 5,479,923	T Method and apparatus for analyzing a sample
1110 5,479,018	T Back surface illuminated infrared detector
1111 5,479,017	T Scanning mechanism for radiation TV set
1112 5,477,459	T Real time three-dimensional machine locating system
1113 5,477,321	T Dual beam tunable spectrometer
1114 5,476,108	T Method and apparatus for detecting foreign matter within a layer of tobacco
1115 5,475,729	T X-ray reference channel and x-ray control circuit for ring tube CT scanners
1116 5,475,727	T Intelligent automatic gain stabilization for radiation detection instrument
1117 5,475,726	T Process for the reconstruction of three-dimensional images of an area of interest of an object comprising the combination of measurements over the entire object with

- measurements of an area of interest of said object, and appropriate installation
- 1118 5,475,365 **T** Methods and apparatus for intrusion detection having improved immunity to false alarms
- 1119 5,475,212 **T** Apparatus for imaging multiple radiation beams
- 1120 5,473,658 **T** Computer tomography apparatus for conducting a spiral scan of an examination subject
- 1121 5,473,162 **T** Infrared emission detection of a gas
- 1122 5,471,062 **T** Large volume flow-through scintillating detector
- 1123 5,471,061 **T** Method and apparatus for transmission measurements to form a 2-d or a 3-d image in tomography applications
- 1124 5,471,060 **T** Pyroelectric infrared radiation detector and method of producing the same
- 1125 5,471,057 **T** Method and apparatus for determining elemental concentrations for .gamma. r a
- 1126 5,471,047 **T** Matrix imaging method and system using a matrix detector with a plurality of sequentially illuminated detector elements for measuring radiation of separate portions of a scene being viewed
- 1127 5,469,855 **T** Continuous temperature monitor
- 1128 5,469,630 **T** Gimballed compass device
- 1129 5,468,961 **T** Infrared gas analyser and humidity sensor
- 1130 5,467,192 **T** Improvements in or relating to surface curvature measurement
- 1131 5,466,953 **T** Denuded zone field effect photoconductive detector
- 1132 5,466,939 **T** Nuclear medicine imaging apparatus
- 1133 5,465,080 **T** Infrared intrusion sensor
- 1134 5,464,982 **T** Respiratory gas analyzer
- 1135 5,464,013 **T** Medical scanning and treatment system and method
- 1136 5,463,666 **T** Helical and circle scan region of interest computerized tomography
- 1137 5,463,216 **T** Image sensor
- 1138 5,462,439 **T** Charging batteries of electric vehicles
- 1139 5,462,176 **T** Latex detection system
- 1140 5,461,654 **T** X-ray fluorescence detector
- 1141 5,461,650 **T** Method and system for pre-processing cone beam data for reconstructing free of interpolation-induced artifacts a three dimensional computerized tomography image
- 1142 5,461,598 **T** Balanced focus actuator for an optical storage system
- 1143 5,461,477 **T** Method and apparatus for imaging
- 1144 5,461,230 **T** Method and apparatus for temperature compensation of gamma tools in MWD environments
- 1145 5,461,136 **T** Method for tagging thermoplastic materials with near infrared fluorophores
- 1146 5,460,973 **T** Method for continuous determination of volatile impurities in contaminated medium
- 1147 5,460,451 **T** Pyrometer including an emissivity meter
- 1148 5,460,450 **T** Cryogenic hygrometer
- 1149 5,459,319 **T** Radiation detector circuit having a 1-bit quantized output
- 1150 5,457,331 **T** Dual-band infrared radiation detector optimized for fabrication in compositionally graded HgCdTe

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1151 5,457,322	T Semiconductor radiation detection apparatus for discriminating radiation having differing energy levels
1152 5,456,253	T Disposable extracorporeal conduit for blood constituent monitoring
1153 5,454,490	T Conical insets for chip bin
1154 5,454,019	T Computed tomography system
1155 5,453,621	T Enhanced pathlength gas sample chamber
1156 5,453,618	T Miniature infrared line-scanning imager
1157 5,452,721	T Scanning gamma camera including a system for controlling the spatial limits of the scan
1158 5,451,792	T Gamma radiation detection
1159 5,451,789	T High performance positron camera
1160 5,451,786	T Uncooled mis capacitor for infrared detection
1161 5,451,777	T Scanning apparatus with self-propelled linear motion carriage
1162 5,451,453	T Supports having azlactone-functional surfaces, adduct supports, and methods of preparing both
1163 5,450,461	T Self-calibrating computed tomography imaging system
1164 5,449,909	T Tunnel effect wave energy detection
1165 5,449,665	T Continuous intravenous infusion of adenosine to human patients undergoing percutaneous transluminal angioplasty
1166 5,449,496	T Downflow fluid catalytic cracking process and apparatus

- 1167 5,448,835 **T** Compass device
- 1168 5,448,472 **T** Method using reference indicia on tape attached to mouth surface to obtain three dimensional contour data
- 1169 5,447,207 **T** Downhole tool
- 1170 5,446,799 **T** CT Scanner with improved processing efficiency 180 degrees+ fan angle reconstruction system
- 1171 5,446,780 **T** X-ray apparatus with mechanical distance-measuring device
- 1172 5,446,284 **T** Monolithic detector array apparatus
- 1173 5,445,158 **T** Radiation detector probe
- 1174 5,444,815 **T** Multi-zone lamp interference correction system
- 1175 5,444,756 **T** X-ray machine, solid state radiation detector and method for reading radiation detection information
- 1176 5,444,255 **T** Gas detector for x-radiation
- 1177 5,444,251 **T** Diamond radiation detector element
- 1178 5,444,236 **T** Multicolor radiation detector method and apparatus
- 1179 5,443,315 **T** Multi-zone real-time emissivity correction system
- 1180 5,442,727 **T** Semiconductor processing technique, including pyrometric measurement of radiantly heated bodies
- 1181 5,442,674 **T** Device and automatic method for the geometrical calibration of an X-ray imaging system
- 1182 5,442,181 **T** Radiation detector and its manufacturing method
- 1183 5,441,050 **T** Radiation responsive surgical instrument
- 1184 5,440,135 **T** Self-calibrating radiation detectors for measuring the areal extent of contamination
- 1185 5,438,202 **T** Stabilized scatter free gamma camera images
- 1186 5,436,867 **T** Holographic random access memory
- 1187 5,436,716 **T** Apparatus for optically testing objects such as security documents or labels
- 1188 5,436,459 **T** UV spectrometer with laser diodes and laser frequency multiplication
- 1189 5,436,458 **T** Solid state radiation detection panel having tiled photosensitive detectors arranged to minimize edge effects between tiles
- 1190 5,436,443 **T** Polaradiometric pyrometer in which the parallel and perpendicular components of radiation reflected from an unpolarized light source are equalized with the thermal radiation emitted from a measured object to determine its true temperature
- 1191 5,434,560 **T** System for detecting random events
- 1192 5,434,468 **T** Radiographic detector with perforated cathode
- 1193 5,434,414 **T** Reduction of image artifacts caused by unwanted photons
- 1194 5,433,901 **T** Method of manufacturing an ITO sintered body
- 1195 5,432,374 **T** Integrated IR and mm-wave detector
- 1196 5,432,353 **T** Nuclear gauge
- 1197 5,432,349 **T** Fourier transform microscope for x-ray and/or gamma-ray imaging
- 1198 5,432,334 **T** Method and apparatus for imaging multiple radiation beams
- 1199 5,431,161 **T** Method and apparatus for information acquisition, processing, and display within a medical camera system
- 1200 5,430,299 **T** Scintillation crystal radiation detector which uses a multiwire counter structure in a

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 1201 [5,428,215](#) **T** [Digital high angular resolution laser irradiation detector \(HARLID\)](#)
- 1202 [5,427,766](#) **T** [Radiolabeled steroids for use in radiochemical-guided surgery](#)
- 1203 [5,427,733](#) **T** [Method for performing temperature-controlled laser sintering](#)
- 1204 [5,425,064](#) **T** [Nuclear turbine coolant flow meter](#)
- 1205 [5,423,432](#) **T** [Water-dissipatable polyesters and amides containing near infrared fluorescent compounds copolymerized therein](#)
- 1206 [5,423,205](#) **T** [Densitometer](#)
- 1207 [5,422,475](#) **T** [Method and apparatus for concentrating optical flux in a focal plane array](#)
- 1208 [5,420,452](#) **T** [Solid state radiation detector](#)
- 1209 [5,420,430](#) **T** [Detection systems for detecting obstructions in doorways](#)
- 1210 [5,420,427](#) **T** [Mobile, multi-mode apparatus and method for nondestructively inspecting components of an operating system](#)
- 1211 [5,420,421](#) **T** [Wide dynamic range non-uniformity compensation for infrared focal plane arrays](#)
- 1212 [5,420,420](#) **T** [Infrared detector](#)
- 1213 [5,419,637](#) **T** [Method and apparatus for measuring temperature using an inherently calibrated p-n junction-type temperature sensor](#)
- 1214 [5,419,321](#) **T** [Non-invasive medical sensor](#)
- 1215 [5,418,832](#) **T** [Scanning radiographic device with slit, slot and grid](#)
- 1216 [5,418,830](#) **T** [Radiometric thickness measurement gage](#)
- 1217 [5,418,359](#) **T** [Method and apparatus for detecting objects with range-dependent blocking](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1251 5,392,125	T Instrument for determining visual surface properties
1252 5,391,879	T Radiation detector
1253 5,391,873	T Imaging apparatus compensating for nonuniformity in detector outputs
1254 5,391,868	T Low power serial bias photoconductive detectors
1255 5,390,229	T Lead-paint detector
1256 5,390,226	T Method and apparatus for pre-processing cone beam projection data for exact three dimensional computer tomographic image reconstruction of a portion of an object
1257 5,390,111	T Method and system for processing cone beam data for reconstructing free of boundary-induced artifacts a three dimensional computerized tomography image
1258 5,389,238	T Ebullated bed process with recycle eductor
1259 5,388,909	T Optical apparatus and method for measuring temperature of a substrate material with a temperature dependent band gap
1260 5,386,875	T Method for controlling sand production of relatively unconsolidated formations
1261 5,386,448	T Method for imaging an object by means of a panoramic apparatus equipped with exposure automatics
1262 5,386,122	T Radiation detector and method for making the same
1263 5,384,462	T Process and apparatus for localizing a source of charged particles using an electric field
1264 5,382,797	T Fast cooldown cryostat for large infrared focal plane arrays
1265 5,381,796	T Ear thermometer radiation detector

- 1266 5,381,130 **T** Optical smoke detector with active self-monitoring
- 1267 5,381,014 **T** Large area X-ray imager and method of fabrication
- 1268 5,380,669 **T** Method of fabricating a two-color detector using LPE crystal growth
- 1269 5,379,651 **T** Point optical beam electronic rotometer
- 1270 5,379,335 **T** Automatic grid oscillation control for radiographic imaging systems
- 1271 5,378,896 **T** Harmful solar radiation detection device
- 1272 5,378,893 **T** Radiation event qualifier for positron emission tomography
- 1273 5,378,892 **T** Angle filter for use in an infrared optical system
- 1274 5,378,343 **T** Electrode assembly including iridium based mercury ultramicroelectrode array
- 1275 5,377,252 **T** Computer tomography apparatus with beam thickness adjustment
- 1276 5,377,105 **T** Enhanced vertical resolution processing of dual-spaced neutron and density tools
- 1277 5,376,798 **T** Weight measuring apparatus
- 1278 5,376,797 **T** Method and apparatus for producing and utilizing flashes of light which simulate scintillation events
- 1279 5,375,008 **T** Systems for distinguishing between friendly ground targets and those of a foe
- 1280 5,373,543 **T** Computer tomography apparatus having means for producing a shadowgraph
- 1281 5,373,538 **T** System for the detection of substances and in particular explosives by the neutron irradiation thereof
- 1282 5,373,182 **T** Integrated IR and visible detector
- 1283 5,373,162 **T** Radiation detector for limiting effects of shading
- 1284 5,373,135 **T** Process and an arrangement for treating workpiece by means of laser radiation
- 1285 5,371,496 **T** Two-part sensor with transformer power coupling and optical signal coupling
- 1286 5,371,376 **T** Mercuric iodide detector
- 1287 5,371,362 **T** Nuclear detection process with base potential correction and corresponding apparatus (particularly a gamma-camera)
- 1288 5,371,020 **T** Method of photometric in vitro determination of the content of an analyte in a sample
- 1289 5,369,674 **T** Plant diagnosis apparatus and method
- 1290 5,369,578 **T** Method and apparatus for using non-linear spectral fitting procedures on gamma-ray spectral data
- 1291 5,369,483 **T** Analysis of polymer melt stream
- 1292 5,369,277 **T** Infrared source
- 1293 5,369,270 **T** Signal generator activated by radiation from a screen-like space
- 1294 5,366,903 **T** Method of photometric in vitro determination of the content of an analyte in a sample of whole blood
- 1295 5,365,564 **T** Method and apparatus for bone morphometry and a morphometric bone assay system
- 1296 5,364,186 **T** Apparatus and method for monitoring a temperature using a thermally fused composite ceramic blackbody temperature probe
- 1297 5,363,363 **T** Apparatus and method for laser noise cancellation in an optical storage system using a front facet monitor signal
- 1298 5,363,226 **T** Apparatus and method for dispersion compensation for a grating coupler using a surface relief reflection grating

1299 5,362,969 **T** Processing endpoint detecting technique and detector structure using multiple radiation sources or discrete detectors

1300 5,362,963 **T** Nanometer dimension optical device with microimaging and nanoillumination capabilities

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PAT. NO.	Title
1301 <u>5,361,757</u>	<u>T Subcutaneous radiation reflection probe</u>
1302 <u>5,360,982</u>	<u>T Optoelectronic semiconductor having a groove-shaped waveguide</u>
1303 <u>5,360,975</u>	<u>T Method of gain regulation for downhole spectroscopy tools without using a calibration source</u>
1304 <u>5,360,960</u>	<u>T Light intensity weld monitor</u>
1305 <u>5,360,535</u>	<u>T Ebullated bed process with recycle eductor</u>
1306 <u>5,360,066</u>	<u>T Method for controlling sand production of formations and for optimizing hydraulic fracturing through perforation orientation</u>
1307 <u>5,359,189</u>	<u>T Infrared collector having a flattened convex surface</u>
1308 <u>5,357,333</u>	<u>T Apparatus for measuring the effective refractive index in optical fibers</u>
1309 <u>5,357,113</u>	<u>T Infrared gas mixture analyzer</u>
1310 <u>5,355,845</u>	<u>T Temperature measurement in power generator boilers</u>
1311 <u>5,355,013</u>	<u>T Integrated radiation pixel detector with PIN diode array</u>
1312 <u>5,354,999</u>	<u>T Leak detection achieved by detection of light transmitted through an opaque layer interrupted by a passing bubble</u>
1313 <u>5,354,996</u>	<u>T Metal ion monitoring system</u>
1314 <u>5,354,993</u>	<u>T Optical communication link for medical imaging gantry having continuous line of sight communications between transmitters and receivers</u>
1315 <u>5,354,983</u>	<u>T Object detector utilizing a threshold detection distance and suppression means for detecting the presence of a motor vehicle</u>

- 1316 [5,352,904](#) **T** [Multiple quantum well superlattice infrared detector with low dark current and high quantum efficiency](#)
- 1317 [5,352,896](#) **T** [High energy radiation detector including a radiation to light converter having baffle plates extending toward a light detector](#)
- 1318 [5,352,462](#) **T** [Anti-inflammatory factor, method of isolation, and use](#)
- 1319 [5,351,686](#) **T** [Disposable extracorporeal conduit for blood constituent monitoring](#)
- 1320 [5,351,203](#) **T** [Online tomographic gauging of sheet metal](#)
- 1321 [5,351,117](#) **T** [Sensing a narrow frequency band and gemstones](#)
- 1322 [5,349,267](#) **T** [Lighting and/or indicating apparatus for use in foggy conditions](#)
- 1323 [5,349,195](#) **T** [Spectroscopy method for high count rate nuclear pulses](#)
- 1324 [5,347,354](#) **T** [Sagnac-type optical fiber gyroscope having depolarizers of differing lengths](#)
- 1325 [5,347,131](#) **T** [Gas ionizing-radiation detector](#)
- 1326 [5,345,381](#) **T** [Spiral scan computer tomography apparatus](#)
- 1327 [5,345,084](#) **T** [Directional fast-neutron detector](#)
- 1328 [5,345,077](#) **T** [Method and apparatus for producing a porosity log of a subsurface formation corrected for detector standoff](#)
- 1329 [5,344,701](#) **T** [Porous supports having azlactone-functional surfaces](#)
- 1330 [5,344,554](#) **T** [Downflow fluid catalytic cracking process and apparatus](#)
- 1331 [5,343,296](#) **T** [Optical scanner with self contained standardization means](#)
- 1332 [5,343,046](#) **T** [Detector collimator for moving filter media](#)
- 1333 [5,342,936](#) **T** [Tetra-aza macrocycles and processes for their preparation](#)
- 1334 [5,341,804](#) **T** [System for disabling oximeter in presence of ambient light](#)
- 1335 [5,341,649](#) **T** [Heat transfer system method and apparatus](#)
- 1336 [5,340,986](#) **T** [Diffusion-type gas sample chamber](#)
- 1337 [5,340,984](#) **T** [Non-contact interconnect for focal plane arrays](#)
- 1338 [5,340,536](#) **T** [Method and apparatus for neutralization of biohazardous waste](#)
- 1339 [5,339,962](#) **T** [Method and apparatus for sorting materials using electromagnetic sensing](#)
- 1340 [5,339,375](#) **T** [Connector for coupling a multiple channel cable to a cuvette](#)
- 1341 [5,339,155](#) **T** [Optical wavelength modulated long-path gas monitoring apparatus](#)
- 1342 [5,336,890](#) Withdrawn
- 1343 [5,336,714](#) **T** [Water-dissipatable polyesters and amides containing near infrared fluorescent compounds copolymerized therein](#)
- 1344 [5,334,839](#) **T** [Position sensitive radiation detector](#)
- 1345 [5,334,584](#) **T** [Recombinant, non-glycosylated bpi protein and uses thereof](#)
- 1346 [5,334,191](#) **T** [Laser tissue welding control system](#)
- 1347 [5,333,784](#) **T** [Radiation detector with thermocouple calibration and remote temperature reference](#)
- 1348 [5,332,911](#) **T** [Semiconductor component with adiabatic transport in edge channels](#)
- 1349 [5,332,902](#) **T** [Module detection unit including infrared detectors](#)
- 1350 [5,332,176](#) **T** [Controlled interlace for TOW missiles using medium wave infrared sensor or TV sensor](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 1351 [5,331,682](#) **T** [Radiation detector offset and afterglow compensation technique](#)
- 1352 [5,331,456](#) **T** [Radiation microscope](#)
- 1353 [5,331,168](#) **T** [Reference grade solar ultraviolet band pyranometer](#)
- 1354 [5,331,161](#) **T** [Ion irradiation system and method](#)
- 1355 [5,331,140](#) **T** [Code reading systems](#)
- 1356 [5,330,142](#) **T** [Mobile support frame for radiation detection equipment](#)
- 1357 [5,329,124](#) **T** [Radiation detector](#)
- 1358 [5,329,117](#) **T** [Device for dispensing predetermined dosages of flowable material](#)
- 1359 [5,327,890](#) **T** [Apparatus for treating a patient with acoustic waves](#)
- 1360 [5,327,356](#) **T** [Emissions spectral radiometer/fuel flow instrument](#)
- 1361 [5,327,005](#) **T** [Striped contact IR detector](#)
- 1362 [5,326,970](#) **T** [Method and apparatus for logging media of a borehole](#)
- 1363 [5,325,863](#) **T** [Radiation detector with high thermal stability](#)
- 1364 [5,325,855](#) **T** [Flexible intraoperative radiation imaging camera](#)
- 1365 [5,325,237](#) **T** [Optical device for reversing pupil and image](#)
- 1366 [5,325,177](#) **T** [Optical, interferometric hole gauge](#)
- 1367 [5,323,004](#) **T** [Nuclear resonances in activation analysis, and particularly, its application to detection of nitrogen based explosives in luggage](#)
- 1368 [5,322,995](#) **T** [Charge integration preamplifier for use in radiation detection circuitry](#)

- 1369 [5,322,361](#) **T** [Method and apparatus for measuring temperature](#)
- 1370 [5,321,970](#) **T** [Method and apparatus for calibrating a spectrometer](#)
- 1371 [5,321,786](#) **T** [Process for the hybridization and positioning of an optoelectronic component relative to an integrated optical guide](#)
- 1372 [5,321,290](#) **T** [Thermal imaging devices](#)
- 1373 [5,319,693](#) **T** [Three dimensional computerized tomography scanning configuration for imaging large objects with smaller area detectors](#)
- 1374 [5,319,208](#) **T** [Forced air flow radon detector having electrically conductive inlet and exhaust filter](#)
- 1375 [5,319,202](#) **T** [Radiation detector with remote temperature reference](#)
- 1376 [5,318,123](#) **T** [Method for optimizing hydraulic fracturing through control of perforation orientation](#)
- 1377 [5,317,145](#) **T** [Radiation source detector and tracker control having a shade pole and radiation responsive surface in the shape of narrow bands](#)
- 1378 [5,315,628](#) **T** [Computer tomograph having means for displaying shadowgraphs](#)
- 1379 [5,315,247](#) **T** [Method and apparatus for measuring a magnetic field using a deflectable energized loop and a tunneling tip](#)
- 1380 [5,315,124](#) **T** [Nuclear gauge](#)
- 1381 [5,315,117](#) **T** [Volume meter system](#)
- 1382 [5,313,673](#) **T** [Electronic flush valve arrangement](#)
- 1383 [5,313,504](#) **T** [Neutron and photon monitor for subsurface surveying](#)
- 1384 [5,313,065](#) **T** [Fiber optic radiation monitor](#)
- 1385 [5,312,664](#) **T** [Optical recording media](#)
- 1386 [5,311,359](#) **T** [Reflective optical correlator with a folded asymmetrical optical axis](#)
- 1387 [5,311,278](#) **T** [Spectrometer](#)
- 1388 [5,311,033](#) **T** [Layered imaging stack for minimizing interference fringes in an imaging device](#)
- 1389 [5,311,024](#) **T** [Lens arrangement for intrusion detection device](#)
- 1390 [5,311,022](#) **T** [Tri-scan horizon sensor](#)
- 1391 [5,311,012](#) **T** [Method and apparatus for detecting objects with modifying gain and sensor means](#)
- 1392 [5,311,009](#) **T** [Quantum well device for producing localized electron states for detectors and modulators](#)
- 1393 [5,308,988](#) **T** [Analyzer for radiotherapy radiation beam](#)
- 1394 [5,308,834](#) **T** [Treatment of endotoxin-associated shock and prevention thereof using a BPI protein](#)
- 1395 [5,307,299](#) **T** [Circuit arrangement for the digital processing of semiconductor detector signals](#)
- 1396 [5,307,264](#) **T** [Method and apparatus for computing tomographic scans](#)
- 1397 [5,307,139](#) **T** [Apparatus and method for detecting leaks in packages](#)
- 1398 [5,306,911](#) **T** [Method for determining the flow rate of aqueous phases in a multiphase flow](#)
- 1399 [5,306,902](#) **T** [Confocal method and apparatus for focusing in projection lithography](#)
- 1400 [5,306,144](#) **T** [Device for detecting dental caries](#)

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SPEC/"radiation: 4072 patents.

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PAT. NO.	Title
1401 5,305,416	<u>T Semiconductor processing technique, including pyrometric measurement of radiantly heated bodies</u>
1402 5,305,368	<u>T Method and apparatus for piece-wise radiographic scanning</u>
1403 5,305,363	<u>T Computerized tomographic scanner having a toroidal x-ray tube with a stationary annular anode and a rotating cathode assembly</u>
1404 5,305,077	<u>T High-resolution spectroscopy system</u>
1405 5,303,282	<u>T Radiation imager collimator</u>
1406 5,302,968	<u>T Wireless remote control and zoom system for a video display apparatus</u>
1407 5,302,831	<u>T Dewar construction for cooling radiation detector cold finger</u>
1408 5,302,819	<u>T Method of, and apparatus for, detecting an object</u>
1409 5,301,673	<u>T Ambulatory clearance function monitor</u>
1410 5,301,353	<u>T Communication system and apparatus</u>
1411 5,300,770	<u>T Apparatus for producing a porosity log of a subsurface formation corrected for detector standoff</u>
1412 5,299,867	<u>T Low moisture cryogenic hygrometer</u>
1413 5,299,250	<u>T Computer tomography apparatus with compensation for focus migration by adjustment of diaphragm position</u>
1414 5,299,046	<u>T Self-sufficient photon-driven component</u>
1415 5,298,754	<u>T Gas flow Geiger-Mueller type detector and method monitoring ionizing radiation</u>
1416 5,298,346	<u>T Battery identification system</u>

- 1417 [5,297,035](#) **T** [Method and system for processing RI images in SPECT apparatus](#)
- 1418 [5,296,720](#) **T** [Apparatus and method for discriminating against undesired radiation in a multiple quantum well long wavelength infrared detector](#)
- 1419 [5,296,710](#) **T** [Infrared radiation detector](#)
- 1420 [5,296,709](#) **T** [Uniformity correction of whole body images taken with non-rectangular detectors](#)
- 1421 [5,296,708](#) **T** [Method and apparatus for transmission measurements to form a 3-D image in tomography applications](#)
- 1422 [5,296,384](#) **T** [Bake-stable HgCdTe photodetector and method for fabricating same](#)
- 1423 [5,295,191](#) **T** [Hearing aid intended for being mounted within the ear canal](#)
- 1424 [5,295,165](#) **T** [Self-locking plug for plugging a hole defined by a surrounding structure](#)
- 1425 [5,293,781](#) **T** [Tunnel effect measuring systems and particle detectors](#)
- 1426 [5,293,417](#) **T** [X-ray collimator](#)
- 1427 [5,293,414](#) **T** [Nuclear resonances in activation analysis, and particularly, its application to detection of nitrogen based explosives in luggage](#)
- 1428 [5,293,410](#) **T** [Neutron generator](#)
- 1429 [5,293,312](#) **T** [Method and apparatus for computing tomographic scans](#)
- 1430 [5,293,195](#) **T** [Reduction of image artifacts caused by Compton scatter](#)
- 1431 [5,293,036](#) **T** [Radiation detector array having center surround pixel output](#)
- 1432 [5,292,855](#) **T** [Water-dissipatable polyesters and amides containing near infrared fluorescent compounds copolymerized therein](#)
- 1433 [5,291,332](#) **T** [Etalons with dispersive coatings](#)
- 1434 [5,290,513](#) **T** [Radiation measuring device, particularly for luminescence measurements](#)
- 1435 [5,290,102](#) **T** [Tunnel effect measuring systems and particle detectors](#)
- 1436 [5,288,646](#) **T** [Method of photometric in vitro determination of the content of an analyte in a sample of whole blood](#)
- 1437 [5,288,365](#) **T** [Method for growing a silicon carbide single crystal](#)
- 1438 [5,288,364](#) **T** [Silicon epitaxial reactor and control method](#)
- 1439 [5,287,546](#) **T** [Patient positioning apparatus for bone scanning](#)
- 1440 [5,286,973](#) **T** [Radiation mapping system](#)
- 1441 [5,283,627](#) **T** [System for inhibiting quenching of laser beams in response to radiation events](#)
- 1442 [5,283,416](#) **T** [Laser process monitoring and evaluation](#)
- 1443 [5,282,473](#) **T** [Sidestream infrared gas analyzer requiring small sample volumes](#)
- 1444 [5,282,466](#) **T** [System for disabling oximeter in presence of ambient light](#)
- 1445 [5,281,825](#) **T** [Phase fluorometry using a modulated electroluminescent lamp as a light source](#)
- 1446 [5,281,820](#) **T** [Radiation detector](#)
- 1447 [5,281,816](#) **T** [Method and apparatus for detecting hydrocarbon vapors in a monitored area](#)
- 1448 [5,281,542](#) **T** [Planar quantum well photodetector](#)
- 1449 [5,280,338](#) **T** [Multi-grating spectrograph and method of changing gratings](#)
- 1450 [5,278,886](#) **T** [Radiosurgery effecting position correction of collimator](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1451 5,277,928	T Method and apparatus for controlling yarn coatings
1452 5,276,391	T Door mounted safety apparatus
1453 5,276,328	T Radiation detector having reflective isolation plates
1454 5,276,327	T Sensor and method for mesaurement of select components of a material
1455 5,274,688	T Lead-paint detector
1456 5,274,479	T Mirror alignment and/or figure sensing with surface mounted holographic optical elements
1457 5,274,237	T Deicing device for cryogenically cooled radiation detector
1458 5,273,910	T Method of making a solid state electromagnetic radiation detector
1459 5,273,610	T Apparatus and method for determining power in plasma processing
1460 5,272,738	T Device for monitoring the atmosphere withing a nuclear reactor containment
1461 5,272,356	T Multiple quantum well photodetector for normal incident radiation
1462 5,271,978	T Optical recording media
1463 5,271,668	T Material containment enclosure
1464 5,271,407	T Radiation detector suitable for tympanic temperature measurement
1465 5,268,885	T Method and means for detecting and stablizing control loop parameters of apparatus for scanning a record carrier
1466 5,268,574	T Transfer device for cassettes containing radioactive samples in a gamma counter and cassette system
1467 5,267,282	T Device for monitoring the stack exit air in a reactor installation

- 1468 [5,266,883](#) **T** [Scintillation tube and ionization detector dynamic calibration monitor and feedback regulator](#)
- 1469 [5,265,470](#) **T** [Tunnel effect measuring systems and particle detectors](#)
- 1470 [5,264,698](#) **T** [Nanometer dimension optical device with microimaging and nanoillumination capabilities](#)
- 1471 [5,264,375](#) **T** [Superconducting detector and method of making same](#)
- 1472 [5,264,154](#) **T** [Single crystal scintillator](#)
- 1473 [5,262,946](#) **T** [Dynamic volume scanning for CT scanners](#)
- 1474 [5,262,644](#) **T** [Remote spectroscopy for raman and brillouin scattering](#)
- 1475 [5,261,415](#) **T** [CO.sub.2 mainstream capnography sensor](#)
- 1476 [5,259,570](#) **T** [Laser resistant optical detector arrangement](#)
- 1477 [5,259,466](#) **T** [Method and apparatus for orienting a perforating string](#)
- 1478 [5,258,967](#) **T** [Method and apparatus for separating a first optical control radiation from a second optical control radiation in a read/write head for use in an optical storage and retrieval system](#)
- 1479 [5,258,926](#) **T** [Method of measuring radiation for a radiation measuring device](#)
- 1480 [5,258,622](#) **T** [Apparatus and method for measuring physical characteristics of materials](#)
- 1481 [5,258,619](#) **T** [Pulsed bias radiation detector](#)
- 1482 [5,258,610](#) **T** [Method and apparatus for sensing the presence of a sheet by sheet causing attenuation of radiation](#)
- 1483 [5,257,760](#) **T** [Scanning earth sensor using the sun's position for determining yaw](#)
- 1484 [5,256,879](#) **T** [Microdosimetry radiation analysis method and device](#)
- 1485 [5,255,333](#) **T** [Opto-electronic transducer arrangement having a lens-type optical coupling](#)
- 1486 [5,255,302](#) **T** [Foil-thickness measuring device](#)
- 1487 [5,255,274](#) **T** [Broadband laser source](#)
- 1488 [5,254,480](#) **T** [Process for producing a large area solid state radiation detector](#)
- 1489 [5,253,372](#) **T** [Apparatus for dispensing measured lengths of tubular films onto an armature](#)
- 1490 [5,251,482](#) **T** [Low frequency acoustic fuel sensor](#)
- 1491 [5,251,121](#) **T** [Power supplies](#)
- 1492 [5,250,806](#) **T** [Stand-off compensated formation measurements apparatus and method](#)
- 1493 [5,249,123](#) **T** [Compensation of computed tomography data for detector afterglow](#)
- 1494 [5,248,885](#) **T** [Radiation detector having means for exciting trapped carriers](#)
- 1495 [5,247,556](#) **T** [Method and apparatus of operating a computer tomography apparatus to simultaneously obtain an x-ray shadowgraph and a tomographic exposure](#)
- 1496 [5,246,868](#) **T** [Infrared emission detection](#)
- 1497 [5,246,292](#) **T** [Temperature measurement apparatus](#)
- 1498 [5,246,005](#) **T** [Apparatus and method for producing statistically valid discriminable signals](#)
- 1499 [5,245,408](#) **T** [Electro-optic coherent light detector](#)
- 1500 [5,245,183](#) **T** [Vibration resistant coaxial infrared diode and integrated circuit board](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1501 5,242,813	<u>T Mouse monoclonal antibodies specific for normal primate tissue, malignant human cultural cell lines human tumors</u>
1502 5,242,691	<u>T Anti-inflammatory factor, method of isolation, and use</u>
1503 5,242,020	<u>T Method for deploying extendable arm for formation evaluation MWD tool</u>
1504 5,239,409	<u>T Reflectance infrared microscope having high radiation throughput</u>
1505 5,239,352	<u>T Multiple scattering technique (MUST) lidar</u>
1506 5,239,170	<u>T Autofocus method and apparatus for imaging microscopy using a predetermined visual imaging feature</u>
1507 5,237,821	<u>T Multistep electronic cooler</u>
1508 5,235,817	<u>T Cryogenic cooling apparatus for radiation detector</u>
1509 5,235,402	<u>T Spectrometer</u>
1510 5,235,195	<u>T Solid state electromagnetic radiation detector with planarization layer</u>
1511 5,235,192	<u>T Sensor and method for measurment of select components of a material based on detection of radiation after interaction with the material</u>
1512 5,235,176	<u>T Optical radiation sensing assembly with increased resolution</u>
1513 5,234,840	<u>T Assay with backwash</u>
1514 5,234,803	<u>T Optical recording media</u>
1515 5,233,277	<u>T Apparatus for controlling the operation of electric motors in sewing machines</u>
1516 5,233,195	<u>T Methods and apparatus for measuring characteristics of moving webs</u>
1517 5,233,194	<u>T Optical gas sensor with enriching polymer</u>

- 1518 [5,231,655](#) **T** [X-ray collimator](#)
- 1519 [5,231,654](#) **T** [Radiation imager collimator](#)
- 1520 [5,231,086](#) **T** [Continuous administration adenosine to increase myocardial blood flow](#)
- 1521 [5,229,619](#) **T** [Apparatus for optically measuring the height of surface irregularities having an imaged scanning spot formed on a radiation diffusive screen](#)
- 1522 [5,229,614](#) **T** [Method of coupling radiation in an infrared detector, and an arrangement herefor](#)
- 1523 [5,229,612](#) **T** [Radiation detector with remote temperature reference](#)
- 1524 [5,228,777](#) **T** [Quantum-well electronic bolometer and application to a radiation detector](#)
- 1525 [5,227,859](#) **T** [Passive coherent radiation detection system](#)
- 1526 [5,227,800](#) **T** [Contraband detection system](#)
- 1527 [5,227,634](#) **T** [Radiation detector for computer tomography](#)
- 1528 [5,227,633](#) **T** [Joined scintillator block body for radiation detector](#)
- 1529 [5,227,632](#) **T** [Optical radiation detector with wide field-of-view](#)
- 1530 [5,227,627](#) **T** [Animal body parts phantom](#)
- 1531 [5,227,618](#) **T** [Variably pressurable support and tracking apparatus and method for tracking moving radiation source](#)
- 1532 [5,226,370](#) **T** [Transit car door system and operation](#)
- 1533 [5,225,696](#) **T** [Focal plane array with charge transfer gate](#)
- 1534 [5,223,704](#) **T** [Planar buried quantum well photodetector](#)
- 1535 [5,221,837](#) **T** [Non-contact envelope counter using distance measurement](#)
- 1536 [5,220,589](#) **T** [Correction circuit for a floating-point amplifier](#)
- 1537 [5,220,165](#) **T** [Radiation detection system with a foil means for emitting radiant energy](#)
- 1538 [5,218,962](#) **T** [Multiple region pulse oximetry probe and oximeter](#)
- 1539 [5,218,624](#) **T** [Radiography](#)
- 1540 [5,218,345](#) **T** [Apparatus for wide-area fire detection](#)
- 1541 [5,218,208](#) **T** [Device for measuring radioactive contamination of a body](#)
- 1542 [5,216,532](#) **T** [Optical multiplexing](#)
- 1543 [5,216,255](#) **T** [Beam profile generator for photon radiation](#)
- 1544 [5,216,247](#) **T** [Optical scanning method with circular arc scanning traces](#)
- 1545 [5,216,243](#) **T** [Sample changer mechanism for radioactive samples in gamma counter for use in mass survey](#)
- 1546 [5,216,130](#) **T** [Complex for in-vivo target localization](#)
- 1547 [5,215,653](#) **T** [Catalyst inventory control in an ebullated bed process](#)
- 1548 [5,214,686](#) **T** [Three-dimensional panoramic dental radiography method and apparatus which avoids the subject's spine](#)
- 1549 [5,212,385](#) **T** [Diamond .alpha. particle detector](#)
- 1550 [5,211,347](#) **T** [Thread feed device](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO. Title

- 1551 5,210,782 **T** Method and apparatus for split radiography
- 1552 5,208,478 **T** Detector interface device
- 1553 5,206,923 **T** Method to use an optical fibre as a sensor
- 1554 5,206,699 **T** Sensing a narrow frequency band of radiation and gemstones
- 1555 5,206,499 **T** Strapdown stellar sensor and holographic multiple field of view telescope therefor
- 1556 5,204,889 **T** Apparatus for measuring thickness of metals on a rolling mill
- 1557 5,204,516 **T** Planar optical scanning head having deficiency-correcting grating
- 1558 5,203,631 **T** Narrow spectral band pyrometry
- 1559 5,202,666 **T** Method and apparatus for enhancing hygiene
- 1560 5,199,436 **T** Radiation detector having improved accuracy
- 1561 5,198,682 **T** Multiple quantum well superlattice infrared detector with graded conductive band
- 1562 5,198,673 **T** Radiation image detector with optical gain selenium photosensors
- 1563 5,196,705 **T** Sun exposure monitoring device
- 1564 5,196,645 **T** Process and device for the detection of the sectorial proximity of a target, and weapon using the device
- 1565 5,196,294 **T** Erasable optical recording materials and methods based on tellurium alloys
- 1566 5,196,284 **T** Erasable phase change optical recording elements and methods
- 1567 5,194,733 **T** Multipurpose gamma counter and method for sample handling in gamma measurement

- 1568 [5,193,685](#) **T** [Gemstone sorting apparatus and methods](#)
- 1569 [5,192,868](#) **T** [Proportional counter detector](#)
- 1570 [5,191,220](#) **T** [Flame monitoring apparatus and method having a second signal processing means for detecting a frequency higher in range than the previously detected frequencies](#)
- 1571 [5,189,676](#) **T** [Broadband laser source](#)
- 1572 [5,189,486](#) **T** [Echelle polychromator](#)
- 1573 [5,189,399](#) **T** [Method of operating an ionization smoke alarm and ionization smoke alarm](#)
- 1574 [5,189,305](#) **T** [Timing apparatus particularly for racing vehicles](#)
- 1575 [5,187,727](#) **T** [Method and apparatus for measuring the iron content in zinc layer and thickness of zinc layer](#)
- 1576 [5,187,380](#) **T** [Low capacitance X-ray radiation detector](#)
- 1577 [5,187,360](#) **T** [Aspheric lens having a plurality of lenslets disposed substantially contiguously in an array](#)
- 1578 [5,186,541](#) **T** [Non-contact infrared temperature sensing system](#)
- 1579 [5,185,773](#) **T** [Method and apparatus for nondestructive selective determination of a metal](#)
- 1580 [5,185,527](#) **T** [Multispectral superconductive quantum detector](#)
- 1581 [5,185,525](#) **T** [Changer mechanism for individual measurement of radioactive samples in a gamma counter](#)
- 1582 [5,184,017](#) **T** [Method and apparatus for detecting a component gas in a sample](#)
- 1583 [5,183,740](#) **T** [Flow immunosensor method and apparatus](#)
- 1584 [5,182,624](#) **T** [Solid state electromagnetic radiation detector FET array](#)
- 1585 [5,182,564](#) **T** [Guidance apparatus with dual mode sensor](#)
- 1586 [5,180,917](#) **T** [Self-calibrating proportional counter](#)
- 1587 [5,179,284](#) **T** [Solid state radiation imager having a reflective and protective coating](#)
- 1588 [5,179,283](#) **T** [Infrared detector focal plane](#)
- 1589 [5,179,273](#) **T** [Method for testing or controlling a performance of an adaptive optic](#)
- 1590 [5,179,072](#) **T** [Multispectral superconductive quantum detector](#)
- 1591 [5,178,464](#) **T** [Balance infrared thermometer and method for measuring temperature](#)
- 1592 [5,177,900](#) **T** [Automatic pet door](#)
- 1593 [5,177,776](#) **T** [One dimensional X-ray image sensor with a correction filter and X-ray inspecting apparatus using the same](#)
- 1594 [5,177,580](#) **T** [Implant guarded mesa having improved detector uniformity](#)
- 1595 [5,177,364](#) **T** [Infrared detector construction including a getter and method for manufacturing same](#)
- 1596 [5,177,346](#) **T** [Bar code reader system for reading bar code labels with a highly specular and low contrast surface](#)
- 1597 [5,176,731](#) **T** [Device for performing measurements on a transparent object, method of manufacturing a fiber and fiber manufactured by means of said method](#)
- 1598 [5,173,868](#) **T** [Scanning radiation sensor for multiple spots and apparatus and method of averaging radiation samples of same](#)
- 1599 [5,173,609](#) **T** [Device for the detection of radiation that endangers living beings](#)
- 1600 [5,173,606](#) **T** [Superconductor electromagnetic radiation detector](#)

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PAT. NO.	Title
1601 5,170,064	T Infrared-based gas detector using a cavity having elliptical reflecting surface
1602 5,168,540	T Scintillating articles and method of making the same
1603 5,168,163	T Method and apparatus for detecting the positions of articles transported on a conveyor, particularly for automatic packaging plants
1604 5,168,160	T Method and apparatus for acquiring an electrical signal representing a radiographic image
1605 5,167,214	T Push rod-actuated engine ignition apparatus
1606 5,166,961	T CT scanner having multiple detector widths
1607 5,166,506	T Method for determining an imaging system focus error
1608 5,165,275	T Compensated gamma ray mudlog
1609 5,165,078	T Multi-channel, multi-wavelength detection system
1610 5,164,999	T Blackbody fired on silica fiber
1611 5,164,973	T Projection detecting apparatus for computer tomography
1612 5,164,972	T Computer tomography apparatus having an annularly guided electron beam
1613 5,164,971	T Non-destructive testing apparatus and process with simultaneous acquisition of radiographic data and tomographic data
1614 5,164,591	T Radioactive tracer well logging utilizing bromine
1615 5,163,077	T Device for the counting of chip cards contained in a batch
1616 5,162,655	T Apparatus for calibrating radioactive detection instruments utilizing a beta-ray source within an aluminum mass

- 1617 5,160,844 **T** Gain stabilized neutron detector
- 1618 5,159,936 **T** Noncontact infrared tympanic thermometer
- 1619 5,159,617 **T** Explosive detection method and apparatus using selective gamma ray resonance absorption
- 1620 5,159,577 **T** Technique for reducing whirling of a drill string
- 1621 5,159,406 **T** Light-operated accelerometer-type techniques
- 1622 5,157,412 **T** Laser beam-induced color printing
- 1623 5,156,979 **T** Semiconductor-based radiation-detector element
- 1624 5,156,818 **T** Biaxial casting apparatus for isolating radioactive waste
- 1625 5,155,756 **T** Method of changing between antero-posterior examination and lateral examination with an osteodensimeter
- 1626 5,155,750 **T** Stereoscopic radiographic inspection system
- 1627 5,155,550 **T** Accurate correlator of rotational and translational motions and control method and apparatus
- 1628 5,155,362 **T** Infra-red radiation imaging device arrangements
- 1629 5,155,356 **T** Apparatus and method for detecting subterranean leakage from a large storage vessel
- 1630 5,155,354 **T** Target detector capable of rejecting close-in objects
- 1631 5,153,520 **T** Identifying and quantifying the presence of alpha radiation and specific gaseous molecules present in air samples
- 1632 5,153,436 **T** Temperature controlled detectors for infrared-type gas analyzers
- 1633 5,152,335 **T** Automobile air conditioning system with cool air bypass passage having manual control mode
- 1634 5,151,648 **T** Scintillation tube dynamic calibration monitor and feedback regulator
- 1635 5,151,598 **T** Detector and localizer for low energy radiation emissions
- 1636 5,151,585 **T** Coherent radiation detector
- 1637 5,150,393 **T** X-Ray diagnostics installation for mammography
- 1638 5,149,979 **T** Sagger loading apparatus and a method of loading a sagger
- 1639 5,149,956 **T** Two-color radiation detector array and methods of fabricating same
- 1640 5,149,954 **T** Hold capacitor time delay and integration with equilibrating means
- 1641 5,149,074 **T** Patient support having a long range of vertical displacement
- 1642 5,148,460 **T** Automatic x-ray exposure unit
- 1643 5,148,455 **T** Bone densitometer
- 1644 5,148,307 **T** Nanometer dimension optical device with microimaging and nanoillumination capabilities
- 1645 5,148,235 **T** Michelson interferometer for producing optical path differences by rotating corner cube retroreflectors
- 1646 5,148,030 **T** Radiation image detecting apparatus using address coded signals
- 1647 5,146,210 **T** Wireless remote control system for a television receiver
- 1648 5,146,092 **T** Gas analysis transducers with electromagnetic energy detector units
- 1649 5,146,080 **T** Planar optical scanning head with concentric diffraction gratings
- 1650 5,144,363 **T** Apparatus for and method of projecting a mask pattern on a substrate

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1651 5,144,141	T Photodetector scintillator radiation imager
1652 5,143,850	T Detection of radioisotope labeled components in a capillary
1653 5,142,286	T Read-out photodiodes using sigma-delta oversampled analog-to-digital converters
1654 5,142,150	T Horizon sensor for satellites using superconductor(s) having a high critical temperature
1655 5,141,464	T Touch responsive animated toy figure
1656 5,140,318	T Data transmission system for downhole logging tools
1657 5,139,482	T Fluid infusion line monitor
1658 5,138,947	T Flying body including a target detection device
1659 5,138,646	T X-ray diagnostics apparatus for a bedridden patient
1660 5,138,644	T Method and apparatus for measuring the wall thickness of insulated pipe
1661 5,138,553	T Method and apparatus for bone mineral measurement using a measurement region defined at a selected distance from a styloid bone tip
1662 5,138,168	T Method and apparatus for quantitative autoradiography analysis
1663 5,138,167	T Split energy radiation detection
1664 5,137,833	T Method for detecting polyhydroxyl compounds
1665 5,136,627	T Slit diaphragm system defining X-ray examination zone with visible light and for passing X-ray radiation to the defined zone
1666 5,136,424	T Binary optical element for an optical disk read/write head
1667 5,136,421	T Thermal imaging system and method using scene-average radiation as a thermal

reference

- 1668 [5,136,312](#) **T** [Flash illumination system and method incorporating indirect reflecting surface detection](#)
- 1669 [5,135,706](#) **T** [Device for measuring radioactive contamination on large pieces](#)
- 1670 [5,134,285](#) **T** [Formation density logging MWD apparatus](#)
- 1671 [5,132,917](#) **T** [Method and apparatus for the combined use of dual density measurements to achieve a fast and accurate density measurement in pneumatically transported solids](#)
- 1672 [5,132,543](#) **T** [Electronic pocket dosimeter](#)
- 1673 [5,132,540](#) **T** [Dead time correction and regulation method and apparatus for nuclear spectroscopy](#)
- 1674 [5,130,544](#) **T** [Optical gas analyzer](#)
- 1675 [5,130,533](#) **T** [Device for measuring backscattered radiation using a frequency selective element](#)
- 1676 [5,128,864](#) **T** [Method for computing tomographic scans](#)
- 1677 [5,128,846](#) **T** [Light source](#)
- 1678 [5,128,549](#) **T** [Stray radiation compensation](#)
- 1679 [5,128,546](#) **T** [Diamond scintillation detector](#)
- 1680 [5,127,772](#) **T** [Method and apparatus for the control of suspension density by use of a radiation source](#)
- 1681 [5,127,030](#) **T** [Tomographic imaging with improved collimator](#)
- 1682 [5,126,938](#) **T** [Computerized tomography system](#)
- 1683 [5,126,558](#) **T** [Joint position detector with fiber optical microbend loop](#)
- 1684 [5,125,747](#) **T** [Optical analytical instrument and method having improved calibration](#)
- 1685 [5,124,927](#) **T** [Latent-image control of lithography tools](#)
- 1686 [5,124,552](#) **T** [Sensor and method for measuring web moisture with optimal temperature insensitivity over a wide basis weight range](#)
- 1687 [5,123,751](#) **T** [Systems for sensing pressure and temperature at a common location](#)
- 1688 [5,122,802](#) **T** [Automatic radar generator](#)
- 1689 [5,122,669](#) **T** [Wideband schottky focal plane array](#)
- 1690 [5,122,661](#) **T** [Method and apparatus for testing infrared radiation detectors](#)
- 1691 [5,121,181](#) **T** [Resonant tunneling photodetector for long wavelength applications](#)
- 1692 [5,121,173](#) **T** [Proximity effect very long wavelength infrared \(VLWIR\) radiation detector](#)
- 1693 [5,120,975](#) **T** [Gas turbine flame detection system with reflected flame radiation attenuator](#)
- 1694 [5,120,950](#) **T** [Process of correction of signals from a linear radiation detector and correction device using this process](#)
- 1695 [5,120,129](#) **T** [Spectroscopic cell system having vented dual windows](#)
- 1696 [5,119,739](#) **T** [Transit car door system and operation](#)
- 1697 [5,119,065](#) **T** [Vehicle protection system](#)
- 1698 [5,118,934](#) **T** [Fiber fed x-ray/gamma ray imaging apparatus](#)
- 1699 [5,117,746](#) **T** [Fume hood sash sensing apparatus](#)
- 1700 [5,117,686](#) **T** [Scanning head position sensing for web characteristic measuring system](#)

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SPEC/"radiation: 4072 patents.

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
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- | | |
|----------------|--|
| 1701 5,116,120 | <u>T Gas analyzer having a test chamber traversed by radiation</u> |
| 1702 5,114,238 | <u>T Infrared catadioptric zoom relay telescope</u> |
| 1703 5,114,228 | <u>T Apparatus for measuring the energy of rapidly pulsing radiation</u> |
| 1704 5,113,421 | <u>T Method and apparatus for measuring the thickness of a coating on a substrate</u> |
| 1705 5,113,077 | <u>T Radiation detection circuit having a signal integrating capacitor, and a data aquisition system for an X-ray scanner including such circuit</u> |
| 1706 5,113,076 | <u>T Two terminal multi-band infrared radiation detector</u> |
| 1707 5,113,073 | <u>T Method and apparatus for spectroscopic quantitative analysis of gases in gas mixtures</u> |
| 1708 5,113,069 | <u>T Radiation detector having a defined field of view having a baffle arrangement containing a diffusing element</u> |
| 1709 5,111,818 | <u>T Ambulatory physiological evaluation system including cardiac monitoring</u> |
| 1710 5,111,055 | <u>T Method and system for the optical measurement of the air pressure by laser excitation, particularly in front of an aircraft</u> |
| 1711 5,111,051 | <u>T Multi-anode array photomultiplier tube</u> |
| 1712 5,111,050 | <u>T Quick cooldown/low distortion hybrid focal plane array platform for use in infrared detector dewar packages</u> |
| 1713 5,111,038 | <u>T Acousto-optic tunable filter apparatus and method for detecting and identifying an optical radiation source.</u> |
| 1714 5,110,518 | <u>T Foil-blowing apparatus and method</u> |

- 1715 RE33,909 **T** Steam quality meter
- 1716 5,109,227 **T** Apparatus for identifying and tracking a targeted nuclear source
- 1717 5,109,224 **T** Road traffic signalling system
- 1718 5,108,692 **T** Non-destructive testing of nuclear fuel rods
- 1719 5,107,351 **T** Image enhanced optical correlator system
- 1720 5,105,452 **T** Device for determining the characteristics of blood flow through coronary bypass grafts
- 1721 5,105,157 **T** Apparatus for determining the average water film thickness of road surfaces
- 1722 5,105,087 **T** Large solid state sensor assembly formed from smaller sensors
- 1723 5,104,859 **T** Continuous administration of adenosine to reduce pulmonary vascular resistance
- 1724 5,103,823 **T** Motion correction in cardiology inspection systems
- 1725 5,103,346 **T** Detector with 180 detecting range
- 1726 5,103,088 **T** Optical sensor device using a dielectric transparent spherical-shell section
- 1727 5,103,086 **T** Method of and apparatus for ascertaining the density of a stream of fibrous material
- 1728 5,101,194 **T** Pattern-recognizing passive infrared radiation detection system
- 1729 5,100,623 **T** Laboratory evaporation apparatus
- 1730 5,100,243 **T** Self-calibrating hot wheel detector for railroads
- 1731 5,099,504 **T** Thickness/density measuring apparatus
- 1732 5,099,127 **T** Portable intensitometer and apparatus for centralized control of exposure using the intensitometer
- 1733 5,099,125 **T** Sheet material sensor compensation
- 1734 5,099,120 **T** Thermal-radiation detectors, detection systems and their manufacture
- 1735 5,098,734 **T** Control system for moistener
- 1736 5,098,427 **T** Surgical laser instrument
- 1737 5,097,133 **T** Synthetic diamond radiation detector
- 1738 5,097,129 **T** Surface contamination detection using infrared-transparent fibers or attenuated total reflection crystals
- 1739 5,097,128 **T** Superconducting multilayer architecture for radiative transient discrimination
- 1740 5,097,121 **T** Beveled edge impurity band conduction detector
- 1741 5,095,514 **T** Fibre optic sensor
- 1742 5,095,451 **T** Centrifuge particle size analyzer
- 1743 5,095,217 **T** Well-type ionization chamber radiation detector for calibration of radioactive sources
- 1744 5,095,199 **T** Scanning horizon sensors using an inner and an outer radiation sensitive detector
- 1745 5,094,530 **T** Atomic absorption spectrometer
- 1746 5,093,576 **T** High sensitivity ultraviolet radiation detector
- 1747 5,093,566 **T** Radiation detector for elementary particles
- 1748 5,091,924 **T** Apparatus for the transillumination of articles with a fan-shaped radiation beam
- 1749 5,091,862 **T** Method and system for dimensional and weight measurements of articles of manufacture by computerized tomography
- 1750 5,091,731 **T** Electromagnetic radiation sensors

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 1751 5,091,650 **T** Radiation detector using scintillator array
- 1752 5,091,649 **T** Removal of gases disturbing the measurements of a gas detector
- 1753 5,091,647 **T** Method and apparatus for measuring the thickness of a layer on a substrate
- 1754 5,091,644 **T** Method for analyzing formation data from a formation evaluation MWD logging tool
- 1755 5,091,637 **T** Noise reducing infrared reticle/detector arrangement
- 1756 5,091,288 **T** Method of forming detector array contact bumps for improved lift off of excess metal
- 1757 5,090,819 **T** Superconducting bolometer
- 1758 5,090,040 **T** Data acquisition system for radiographic imaging
- 1759 5,090,039 **T** Inspecting coiled tubing for well operations
- 1760 5,089,714 **T** Particle asymmetry analyzer having sphericity detectors
- 1761 5,086,224 **T** Analysis of nuclear data for determining characteristics of earth formations traversed by a borehole
- 1762 5,084,711 **T** Microwave and millimetric wave receivers
- 1763 5,083,305 **T** Radiation control device with variable active surface of the type sensitive to ionizing radiation
- 1764 5,083,016 **T** 3-transistor source follower-per-detector unit cell for 2-dimensional focal plane arrays
- 1765 5,082,366 **T** Apparatus and method for detecting leaks in packages

- 1766 5,081,658 **T** Method of measuring plating amount and plating film composition of plated steel plate and apparatus therefor
- 1767 5,081,543 **T** Medical diagnostics installation with multiple, wireless control signal transmission channels
- 1768 5,081,362 **T** Directional radiation probe
- 1769 5,081,359 **T** Differential thermal sensor
- 1770 5,081,351 **T** Method and apparatus for borehole correction in capture gamma ray spectroscopy measurements
- 1771 5,081,039 **T** Process for making catalyst inventory measurements and control procedure for adding or withdrawing catalyst
- 1772 5,080,098 **T** Non-invasive sensor
- 1773 5,079,420 **T** Pyroelectric and other thermal-radiation detectors with film element(s)
- 1774 5,078,462 **T** Process and screen for disturbing the transmission of electromagnetic radiation particularly infra-red radiation
- 1775 5,077,685 **T** Method and apparatus for supporting the operation under radioactive rays
- 1776 5,077,548 **T** Dual technology intruder detection system with sensitivity adjustment after "default"
- 1777 5,077,181 **T** Optical recording materials comprising antimony-tin alloys including a third element
- 1778 5,076,702 **T** Installation for extracting granular material in a predetermined composition, method using that installation, a mixing unit, and means of measuring the water content of granular material
- 1779 5,076,502 **T** System for discriminating radiation-contaminated fragments and apparatus for measuring radioactivity of fragments
- 1780 5,075,716 **T** Apparatus and method for precisely exposing radiation sensitive materials
- 1781 5,075,238 **T** Detector interface device
- 1782 5,075,095 **T** Method for preparation of diamond ceramics
- 1783 5,075,045 **T** Biaxial casting method and apparatus for isolating radioactive waste
- 1784 5,074,663 **T** Multiple internal reflection cell having vented dual seals
- 1785 5,074,488 **T** Aircraft engine deactivation apparatus
- 1786 5,073,782 **T** Contraband detection system
- 1787 5,073,706 **T** Procedure and apparatus for detecting objects moving at varying speeds within a certain area
- 1788 5,072,774 **T** Continuous casting mold arrangement
- 1789 5,072,458 **T** Vest for use in an ambulatory physiological evaluation system including cardiac monitoring
- 1790 5,072,387 **T** Method for determining a transit time for a radioactive tracer
- 1791 5,072,120 **T** Electromagnetic imager device
- 1792 5,071,514 **T** Paper weight sensor with stationary optical sensors calibrated by a scanning sensor
- 1793 5,070,878 **T** Detector and localizer for low energy radiation emissions
- 1794 5,070,483 **T** Remote seismic sensing
- 1795 5,070,249 **T** Photomultiplier tube mounting for well logging detectors
- 1796 5,070,247 **T** Collapsible detector for short and long term measurements of radon gas
- 1797 5,070,245 **T** Apparatus and method for the identification of gases
- 1798 5,070,241 **T** Resonant frequency modulation detector

1799 5,070,027 **T** Method of forming a heterostructure diode

1800 5,068,883 **T** Hand-held contraband detector

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1801 5,068,538	<u>T Radon monitor with sealable detecting chamber</u>
1802 5,068,531	<u>T Method and apparatus for producing a porosity log of a subsurface formation corrected for detector standoff</u>
1803 5,067,494	<u>T Device for generating trigger signals for a medical apparatus dependent on the respiratory activity of a patient</u>
1804 5,067,106	<u>T Radiation detection and signal delay circuitry for protecting recorded data</u>
1805 5,067,090	<u>T Nuclear spectroscopy method and apparatus for digital pulse height analysis</u>
1806 5,066,862	<u>T Device for detecting ionizing radiation</u>
1807 5,066,855	<u>T Infrared intrusion detector</u>
1808 5,065,418	<u>T Apparatus for the transillumination of articles with fan-shaped radiation</u>
1809 5,065,416	<u>T On-line slurry ash monitoring system</u>
1810 5,065,028	<u>T Radiation detector</u>
1811 5,065,016	<u>T Radioactive well logging to determine vertical brine flow</u>
1812 5,064,271	<u>T Fiber optic flame and overheat sensing system with self test</u>
1813 5,063,275	<u>T Method and apparatus for gas analysis</u>
1814 5,061,855	<u>T Radiation detector</u>
1815 5,061,445	<u>T Apparatus for conducting measurements of electrochemiluminescent phenomena</u>
1816 5,060,664	<u>T Method of and apparatus for making streams containing fibrous materials of the tobacco processing industry</u>
1817 5,060,505	<u>T Non-dispersive infrared gas analyzer system</u>

- 1818 [5,060,225](#) **T** [Phase modulated optical carrier data link for a focal plane array](#)
- 1819 [5,059,810](#) **T** [Distance independent gauging system](#)
- 1820 [5,059,801](#) **T** [Radiation detector](#)
- 1821 [5,059,026](#) **T** [Interferometric device having a controllable Fabry-Perot](#)
- 1822 [5,058,250](#) **T** [Manufacture of electrical transducer devices, particularly infrared detector arrays](#)
- 1823 [5,058,077](#) **T** [Compensation technique for eccentered MWD sensors](#)
- 1824 [5,058,032](#) **T** [Apparatus and method for monitoring a water treatment system](#)
- 1825 [5,057,833](#) **T** [Passive optical air traffic alert system](#)
- 1826 [5,055,821](#) **T** [System for transmitting data between a rotating part and a stationary part](#)
- 1827 [5,055,690](#) **T** [Method of eliminating water vapor interference in detecting gases](#)
- 1828 [5,055,688](#) **T** [Multicomponent infrared gas analyzer](#)
- 1829 [5,055,686](#) **T** [Radiation detector](#)
- 1830 [5,055,683](#) **T** [Line scanner](#)
- 1831 [5,055,331](#) **T** [Phase-change optical recording media](#)
- 1832 [5,055,265](#) **T** [Biological sensors](#)
- 1833 [5,054,936](#) **T** [Sensor for active thermal detection](#)
- 1834 [5,054,022](#) **T** [Local communication bus system comprising a set of interconnected devices, a control bus, and a set of signal interconnections, and a device and a switchbox for use in such system](#)
- 1835 [5,051,962](#) **T** [Computerized truck instrumentation system](#)
- 1836 [5,051,801](#) **T** [Position-sensitive radiation detector](#)
- 1837 [5,051,595](#) **T** [Fiber optic flame detection and temperature measurement system employing doped optical fiber](#)
- 1838 [5,051,591](#) **T** [Reflective chopper for infrared imaging systems](#)
- 1839 [5,051,590](#) **T** [Fiber optic flame detection and temperature measurement system having one or more in-line temperature dependent optical filters](#)
- 1840 [5,050,525](#) **T** [Gamma survey probe for use on ocean, lake, estuary and river sediments](#)
- 1841 [5,050,200](#) **T** [Radiation control device with variable active surface](#)
- 1842 [5,049,962](#) **T** [Control of optical crosstalk between adjacent photodetecting regions](#)
- 1843 [5,049,740](#) **T** [Multiple field of view sensor](#)
- 1844 [5,047,642](#) **T** [Radioluminescent screen with an improved quality factor and spatial resolution for X or gamma photon imaging](#)
- 1845 [5,047,622](#) **T** [Long wavelength infrared detector with heterojunction](#)
- 1846 [5,045,702](#) **T** [Infrared intrusion detector](#)
- 1847 [5,045,700](#) **T** [Headgear-mounted indicator for ionizing radiation](#)
- 1848 [5,045,692](#) **T** [Simultaneous fluid flow and fluid density measurements using rotameter and nuclear technology](#)
- 1849 [5,043,580](#) **T** [Radiation detector](#)
- 1850 [5,042,685](#) **T** [Dispensing having a compartment for detecting and counting the dispensed objects especially adapted for dispensing medication and method of using the same](#)

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
1851 5,042,302	T Phase-accurate imaging and measuring of elastic wave fields with a laser probe
1852 5,041,839	T Electromagnetic radiation sensors
1853 5,041,729	T Radiation detector and manufacturing process thereof
1854 5,041,728	T Portable personnel monitor which is collapsible for transporting and storage
1855 5,041,714	T Workpiece processing arrangement
1856 5,040,546	T Patient positioning device and method
1857 5,040,200	T Gamma-gamma resonance in activation analysis, and particularly, its application to detection of nitrogen based explosives in luggage
1858 5,039,863	T Automatic radioisotope filling apparatus
1859 5,039,854	T Fluorescent radiation collector for image scanner
1860 5,038,041	T Filter structure having combined wavelength and polarization sensitive characteristics
1861 5,037,204	T Optical-fiber gyroscope
1862 5,036,530	T Emission tomography carousel system and method
1863 5,036,311	T UV Exposure monitoring system
1864 5,036,289	T Method and apparatus for synchronously demodulating detector output of a radiometer
1865 5,036,201	T Probe and collimator for quick releasable mounting thereon
1866 5,036,200	T Device for counting particles of ionizing radiation and its application to implementing a method of measuring the rate of leakage between the primary and

secondary circuits of a steam generator

- 1867 5,035,863 **T** Surface plasmon resonance sensors
- 1868 5,034,610 **T** Mobile radiation monitor
- 1869 5,033,073 **T** System for radiographically inspecting a relatively stationary object and related method
- 1870 5,031,198 **T** Composite detector mounting ring for CT scanners
- 1871 5,030,962 **T** Electromagnetic radiation sensor
- 1872 5,030,830 **T** Housing of radiation detector
- 1873 5,030,827 **T** Radiation detection arrangements
- 1874 5,029,990 **T** Detection system for polarized radiation incident with a skewed polarization plane
- 1875 5,029,192 **T** Computer tomography apparatus with detector which is rotatable separately from the x-ray source
- 1876 5,028,317 **T** Control of jig separators
- 1877 5,027,267 **T** Automatic mixture control apparatus and method
- 1878 5,025,154 **T** Procedure and means for measuring paper formation
- 1879 5,025,151 **T** Lutetium orthosilicate single crystal scintillator detector
- 1880 5,024,527 **T** Method and apparatus for remote position sensing using edge diffraction
- 1881 5,024,526 **T** Measuring instrument for determining the scattering and absorption coefficient of the atmosphere
- 1882 5,023,943 **T** Electrooptical pointing device for remotely controlling electronic apparatus
- 1883 5,023,894 **T** Data correcting device for use with computed tomography apparatus
- 1884 5,023,819 **T** Linear shaped filter
- 1885 5,023,685 **T** Quantum-well radiation-interactive device, and methods of radiation detection and modulation
- 1886 5,023,451 **T** Indicia contrast enhancement for vehicle borne infrared vision system
- 1887 5,023,449 **T** Nuclear spectroscopy signal stabilization and calibration method and apparatus
- 1888 5,023,441 **T** Method to measure the angle of incidence for radiation and a detector to carry out the method
- 1889 5,023,440 **T** Tracker using angle-converting cones
- 1890 5,022,027 **T** Communications interface and system for radiation recovery of a microprocessor portion thereof
- 1891 5,021,854 **T** Silicon avalanche photodiode array
- 1892 5,021,666 **T** Pass-line independent web measuring method and apparatus
- 1893 5,021,664 **T** Method and apparatus for correcting the energy resolution of ionizing radiation spectrometers
- 1894 5,021,657 **T** Thermal imager
- 1895 5,021,655 **T** Apparatus and method for contactless measurement of coating thickness
- 1896 5,020,473 **T** Control system for nozzle positioning motor
- 1897 5,020,155 **T** Audio commentary system
- 1898 5,019,886 **T** Semiconductor-based radiation-detector element
- 1899 5,018,177 **T** Apparatus and method for producing digital panoramic x-ray images
- 1900 5,017,788 **T** Alpha-detecting conveyor apparatus

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PAT. NO.	Title
1901 5,017,787	T Desk top type infrared radiation moisture measuring apparatus
1902 5,017,784	T Thermal detector
1903 5,017,778	T Methods and apparatus for evaluating formation characteristics while drilling a borehole through earth formations
1904 5,017,019	T Radiation detector for differential biological temperature readings
1905 5,015,859	T Method and apparatus for detecting wear
1906 5,015,857	T Infrared detector
1907 5,015,847	T Device for measuring the radioactivity of a load of ore on an extraction machine such as a mechanical shovel or digger
1908 5,015,100	T Apparatus and method for normal incidence reflectance spectroscopy
1909 5,015,093	T Electromagnet for an atomic absorption spectrometer
1910 5,015,070	T Reference grid for optical scanner
1911 5,014,287	T Portable x-ray fluorescence spectrometer for environmental monitoring of inorganic pollutants
1912 5,013,922	T Reduced thickness radiation window for an ionization detector
1913 5,013,921	T X-ray detector
1914 5,013,902	T Microdischarge image converter
1915 5,013,156	T Optical density measurement apparatus in the context of labeling and other devices
1916 5,012,813	T Radiation detector having improved accuracy
1917 5,012,505	T Fluidic slip ring for CT scanners

- 1918 [5,012,103](#) **T** [Radiation detector](#)
- 1919 [5,012,102](#) **T** [Methods of producing vacuum devices and infrared detectors with a getter](#)
- 1920 [5,012,097](#) **T** [Radiation measuring apparatus](#)
- 1921 [5,012,083](#) **T** [Long wavelength infrared detector with heterojunction](#)
- 1922 [5,012,081](#) **T** [Strapdown stellar sensor and holographic lens therefor](#)
- 1923 [5,011,243](#) **T** [Reflectance infrared microscope having high radiation throughput](#)
- 1924 [5,010,254](#) **T** [System for communicating energy between relatively moving devices](#)
- 1925 [5,010,244](#) **T** [Method to detect radiation and measure its angle of incidence and a detector arrangement to carry out the method](#)
- 1926 [5,009,501](#) **T** [A remotely controllable position indicator system](#)
- 1927 [5,008,916](#) **T** [Safety device for radiogenic unit](#)
- 1928 [5,008,911](#) **T** [X-ray quanta measuring device including diaphragm for producing conical radiation beam on object being measured](#)
- 1929 [5,008,906](#) **T** [Consistency measuring device for a slurry containing defoamer](#)
- 1930 [5,008,546](#) **T** [Intraoperative beta probe and method of using the same](#)
- 1931 [5,007,705](#) **T** [Variable optical fiber Bragg filter arrangement](#)
- 1932 [5,007,432](#) **T** [Radiation detection method and apparatus](#)
- 1933 [5,007,427](#) **T** [Ambulatory physiological evaluation system including cardiac monitoring](#)
- 1934 [5,007,371](#) **T** [Control system for moistener](#)
- 1935 [5,006,713](#) **T** [Alpha probe](#)
- 1936 [5,006,712](#) **T** [Catoptric differential sensing device](#)
- 1937 [5,006,711](#) **T** [Multielement infrared detector for thermal imaging](#)
- 1938 [5,006,710](#) **T** [Recognition and processing of waveforms](#)
- 1939 [5,006,264](#) **T** [Apparatuses and methods for liquid-undissolved-solids separation](#)
- 1940 [5,005,196](#) **T** [Limb positioning and calibration apparatus for radiographic imaging](#)
- 1941 [5,005,195](#) **T** [Digital readout system for radiographic imaging](#)
- 1942 [5,005,194](#) **T** [Method and apparatus for detecting in conformity with process time mixing ratios in plastics and rubber compounding](#)
- 1943 [5,004,310](#) **T** [Wide angle line scanner](#)
- 1944 [5,003,502](#) **T** [Digital filter for random variable](#)
- 1945 [5,003,176](#) **T** [Ionization chamber](#)
- 1946 [5,001,348](#) **T** [Method and apparatus for recognizing the start and motion of objects](#)
- 1947 [4,999,610](#) **T** [Multi-range infrared detector](#)
- 1948 [4,999,503](#) **T** [Open-type passive radiation detector](#)
- 1949 [4,998,826](#) **T** [Agricultural infrared thermometer](#)
- 1950 [4,998,270](#) **T** [Mammographic apparatus with collimated controllable X-ray intensity and plurality filters](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

- | PAT.
NO. | Title |
|----------------|--|
| 1951 4,998,269 | <u>T Device for on-line measurement of the gamma radiation emitted by the water in a nuclear reactor circuit, in particular the primary cooling circuit of a pressurized water nuclear reactor</u> |
| 1952 4,996,579 | <u>T Design for electronic spectrally tunable infrared detector</u> |
| 1953 4,996,576 | <u>T Radiation-sensitive device</u> |
| 1954 4,996,435 | <u>T Optical system for transmitting data between a stationary part and a rotating part</u> |
| 1955 4,996,432 | <u>T Radiation detector</u> |
| 1956 4,996,429 | <u>T Pocket measuring instrument for measuring ionizing radiation</u> |
| 1957 4,995,236 | <u>T Cryostatic device for a radiation detector</u> |
| 1958 4,995,107 | <u>T Computer tomography apparatus with axially displaceable detector rows</u> |
| 1959 4,993,419 | <u>T Radiation detector suitable for tympanic temperature measurement</u> |
| 1960 4,992,941 | <u>T Computer tomography apparatus with periodic focus deflection</u> |
| 1961 4,992,667 | <u>T Device for measuring moisture content of soil and snow water storage</u> |
| 1962 4,992,377 | <u>T Article for carrying out biological or chemical procedures containing magnetically responsive material</u> |
| 1963 4,991,968 | <u>T Three dimensional object surface determination with automatic sensor control</u> |
| 1964 4,990,784 | <u>T Nonlinear averaging compensated measurements</u> |
| 1965 4,990,782 | <u>T Radiation shield for thermoelectrically cooled infrared detectors</u> |
| 1966 4,990,772 | <u>T Apparatus and method for calibrating a near-infrared interactance probe</u> |
| 1967 4,990,761 | <u>T Plural arc radiation protector</u> |

- 1968 [4,989,975](#) **T** [Atomic absorption spectrometer](#)
- 1969 [4,989,970](#) **T** [Non-contact sensing apparatus and method for temperature profile and thickness determination and control of radiation translucent materials](#)
- 1970 [4,988,980](#) **T** [Low cost verbal annunciator](#)
- 1971 [4,988,971](#) **T** [Superconducting temperature controller](#)
- 1972 [4,988,858](#) **T** [Catoptric multispectral band imaging and detecting device](#)
- 1973 [4,988,205](#) **T** [Reflectometers](#)
- 1974 [4,988,195](#) **T** [Internal reflectance apparatus and method using cylindrical elements](#)
- 1975 [4,987,584](#) **T** [Materials inspection system using x-ray imaging](#)
- 1976 [4,986,672](#) **T** [Radiation thermometer](#)
- 1977 [4,985,632](#) **T** [Suntan indicator](#)
- 1978 [4,984,658](#) **T** [Car gate reversing edge](#)
- 1979 [4,984,565](#) **T** [Extracorporeal lithotripter with x-ray locating system](#)
- 1980 [4,982,253](#) **T** [Semiconductor charge storage element and method of operating such a storage element](#)
- 1981 [4,982,176](#) **T** [Solar powered lighting and alarm systems activated by motion detection](#)
- 1982 [4,982,096](#) **T** [Multi-element radiation detector](#)
- 1983 [4,982,095](#) **T** [Multi-element type radiation detector](#)
- 1984 [4,982,080](#) **T** [Radiation detecting array including unit cells with periodic output signals each within a unique frequency band](#)
- 1985 [4,981,772](#) **T** [Optical recording materials comprising antimony-tin alloys including a third element](#)
- 1986 [4,981,084](#) **T** [Transit car door system and operation](#)
- 1987 [4,980,904](#) **T** [Radiation imaging calibration](#)
- 1988 [4,980,090](#) **T** [Process of isolating hazardous waste by centrifugal casting and product](#)
- 1989 [4,979,424](#) **T** [Device for setting a fuse](#)
- 1990 [4,979,197](#) **T** [Nuclear radiation apparatus and method for dynamically measuring density of test materials during compaction](#)
- 1991 [4,978,846](#) **T** [Angular position measurement apparatus](#)
- 1992 [4,976,867](#) **T** [Systems and methods for predetermining maximum pressure differentials for microporous hollow fibers employed in liquid-liquid extractions](#)
- 1993 [4,976,545](#) **T** [Sensor device and method of operation](#)
- 1994 [4,976,266](#) **T** [Methods of in vivo radiation measurement](#)
- 1995 [4,975,934](#) **T** [Process and device for producing a radiographic image](#)
- 1996 [4,975,712](#) **T** [Two-dimensional scanning antenna](#)
- 1997 [4,975,222](#) **T** [Radiation detecting elements and method of detection](#)
- 1998 [4,974,963](#) **T** [Portable and autonomous instrument for analyzing a gaseous composition by means of flame spectrophotometry](#)
- 1999 [4,974,247](#) **T** [System for radiographically inspecting an object using backscattered radiation and related method](#)
- 2000 [4,974,245](#) **T** [System for the assembly of a metal joining piece and a high pressure composite material tube notably applications for equipment used in the oil industry](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2001 4,973,913	T Radiation measuring apparatus
2002 4,973,846	T Linear radiation detector
2003 4,973,832	T Optical head chromatically optimized for self-focusing
2004 4,973,451	T Flame arresting conduit section, combustor and method
2005 4,972,081	T Detection of contaminants in air
2006 4,972,071	T Method and apparatus for counting overlapping obects
2007 4,970,509	T Alarm system for warning a land motor vehicle driver of the presence of a roadway edge
2008 4,970,391	T Radiation detector with an ionizable gas atop an integrated circuit
2009 4,969,993	T Chromatographic instrument with command sequencing
2010 4,969,166	T Computer tomography apparatus
2011 4,968,898	T Pulse shaping circuit for radiation detector
2012 4,968,892	T Fluorescent penetrant inspection sensor
2013 4,967,082	T Temperature compensated thermal radiation detectors
2014 4,966,763	T Direct vapor/solid synthesis of mercuric iodide using compounds of mercury and iodine
2015 4,965,726	T CT scanner with segmented detector array
2016 4,963,747	T Ionizing radiation detector
2017 4,963,746	T Split energy level radiation detection

- 2018 [4,963,730](#) **T** [Radon progeny detector](#)
- 2019 [4,962,513](#) **T** [Computer tomography apparatus which avoids image artifacts caused by periodical voltage variations](#)
- 2020 [4,962,316](#) **T** [Frequency domain integrating resonant superconducting transmission line detector](#)
- 2021 [4,962,315](#) **T** [Method and apparatus for measuring radioactivity](#)
- 2022 [4,961,829](#) **T** [Passivation of semiconductor surfaces](#)
- 2023 [4,961,208](#) **T** [Computed tomography apparatus](#)
- 2024 [4,961,098](#) **T** [Heterojunction photodiode array](#)
- 2025 [4,960,995](#) **T** [Radiation detector](#)
- 2026 [4,960,486](#) **T** [Method of manufacturing radiation detector window structure](#)
- 2027 [4,959,809](#) **T** [Multiple sensor position locating system](#)
- 2028 [4,959,547](#) **T** [Apparatus and methods for detecting, localizing, and imaging of radiation in biological systems](#)
- 2029 [4,958,144](#) **T** [Water-flow detector](#)
- 2030 [4,958,080](#) **T** [Lutetium orthosilicate single crystal scintillator detector](#)
- 2031 [4,958,076](#) **T** [Selective natural gas detecting apparatus](#)
- 2032 [4,958,075](#) **T** [Gas analyzer](#)
- 2033 [4,958,074](#) **T** [Apparatus and method for inspecting a mask](#)
- 2034 [4,956,859](#) **T** [Source filter for radiographic imaging](#)
- 2035 [4,956,796](#) **T** [Multiple sensor position locating system](#)
- 2036 [4,956,716](#) **T** [Imaging system employing charge amplifier](#)
- 2037 [4,956,687](#) **T** [Backside contact blocked impurity band detector](#)
- 2038 [4,954,710](#) **T** [Parallax-free gas detector for x-rays](#)
- 2039 [4,954,708](#) **T** [Low distortion focal plane platform](#)
- 2040 [4,954,258](#) **T** [Microbiological degradation of halogenated hydrocarbons in water](#)
- 2041 [4,952,797](#) **T** [System and method for optically controlled acoustic transmission and reception](#)
- 2042 [4,952,000](#) **T** [Method and apparatus for increasing the efficiency of highwall mining](#)
- 2043 [4,951,222](#) **T** [Method and system for dimensional and weight measurements of articles of manufacture by computerized tomography](#)
- 2044 [4,950,898](#) **T** [Method of position monitoring and apparatus therefor](#)
- 2045 [4,948,974](#) **T** [High resolution imaging apparatus and method for approximating scattering effects](#)
- 2046 [4,947,743](#) **T** [Apparatus for feeding a mass of particulate or fibrous material](#)
- 2047 [4,947,648](#) **T** [Thermoelectric refrigeration apparatus](#)
- 2048 [4,947,414](#) **T** [Bone densitometer](#)
- 2049 [4,946,238](#) **T** [Fiber optic coupler](#)
- 2050 [4,945,243](#) **T** [Matrix of photosensitive elements and radiation detector including such a matrix, especially double-energy X-ray detector](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2051 4,945,242	<u>T Photosensitive device and image detector including such a device, especially two-energy image detector</u>
2052 4,945,241	<u>T Position-sensitive radiation detector</u>
2053 4,945,233	<u>T Calibration and quality control system for neutron logging instruments</u>
2054 4,944,579	<u>T Detection system for circularly polarized radiation</u>
2055 4,943,734	<u>T Inspection apparatus and method for detecting flaws on a diffractive surface</u>
2056 4,942,302	<u>T Large area solid state nuclear detector with high spatial resolution</u>
2057 4,942,291	<u>T Position-resolving sensor for detecting individual light flashes</u>
2058 4,941,357	<u>T Method for estimating the strength of wood</u>
2059 4,941,162	<u>T Method and system for detection of nitrogenous explosives by using nuclear resonance absorption</u>
2060 4,940,898	<u>T Semiconducting metal silicide radiation detectors</u>
2061 4,940,670	<u>T Method for compounding and testing patient specific monoclonal antibodies and monoclonal antibody fragments for in vivo use</u>
2062 4,939,793	<u>T Integrated circuit assembly with optically coupled components</u>
2063 4,939,763	<u>T Method for preparing diamond X-ray transmissive elements</u>
2064 4,939,370	<u>T Method of and device for inspecting and/or controlling metallization processes</u>
2065 4,937,454	<u>T Radiation detector</u>
2066 4,937,453	<u>T X-ray detector for radiographic imaging</u>
2067 4,937,452	<u>T Charge trapping correction in photon detector systems</u>

- 2068 [4,937,067](#) **T** [Method and means for detection of adrenal metabolic activity](#)
- 2069 [4,935,950](#) **T** [Instrument for the measurement of x-ray beam characteristics](#)
- 2070 [4,935,636](#) **T** [Highly sensitive image sensor providing continuous magnification of the detected image and method of using](#)
- 2071 [4,935,631](#) **T** [Radiation meters](#)
- 2072 [4,935,628](#) **T** [Method and apparatus for detecting inks](#)
- 2073 [4,935,619](#) **T** [Wireless remote-control system for electronic apparatus](#)
- 2074 [4,935,167](#) **T** [Method and apparatus for treating radioactive waste](#)
- 2075 [4,934,832](#) **T** [Computer tomography apparatus with resiliently mounted radiation detector](#)
- 2076 [4,934,771](#) **T** [Optical apparatus](#)
- 2077 [4,933,961](#) **T** [Imaging system](#)
- 2078 [4,933,562](#) **T** [Multiple-radiation detector particularly for X-rays with two energy levels](#)
- 2079 [4,933,561](#) **T** [Monolithic optocoupler with electrically conducting layer for diverting interference](#)
- 2080 [4,933,560](#) **T** [Pyroelectric infrared sensors](#)
- 2081 [4,933,557](#) **T** [Radiation detector window structure and method of manufacturing thereof](#)
- 2082 [4,933,555](#) **T** [Thermal imager](#)
- 2083 [4,933,126](#) **T** [Method and apparatus of temperature control in heat forming of thermoplastic sheet material](#)
- 2084 [4,932,412](#) **T** [Intraoperative and endoscopic tumor detection and therapy](#)
- 2085 [4,932,405](#) **T** [System of stimulating at least one nerve and/or muscle fibre](#)
- 2086 [4,931,653](#) **T** [Ionizing radiation detector system](#)
- 2087 [4,931,645](#) **T** [Detector for measurement of radiation](#)
- 2088 [4,931,638](#) **T** [Method of monitoring hidden coal-rock interface and transducer realizing this method](#)
- 2089 [4,930,441](#) **T** [Verification of operability of moistener](#)
- 2090 [4,929,913](#) **T** [GaAs focal plane array readout](#)
- 2091 [4,929,835](#) **T** [Position-sensitive radiation detector](#)
- 2092 [4,929,833](#) **T** [Feedback stabilized digital infrared detector circuit](#)
- 2093 [4,929,832](#) **T** [Methods and apparatus for determining distributions of radioactive materials](#)
- 2094 [4,929,329](#) **T** [Electrophoresis cassette system with apparatus and method for filling same](#)
- 2095 [4,928,703](#) **T** [Non-contact respiration rate and apnea monitor using pulmonary gas exchange technique](#)
- 2096 [4,928,522](#) **T** [Steam injection survey apparatus and method for testing wells](#)
- 2097 [4,928,109](#) **T** [Modulated scanning antenna](#)
- 2098 [4,928,014](#) **T** [Near-infrared apparatus and method for determining percent fat in a body](#)
- 2099 [4,928,012](#) **T** [System for measuring electromagnetic radiation originating from the hemisphere](#)
- 2100 [4,927,773](#) **T** [Method of minimizing implant-related damage to a group II-VI semiconductor material](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2101 4,927,222	T Dual optical fiber device
2102 4,926,053	T Radon monitor
2103 4,926,052	T Radiation detecting device
2104 4,926,051	T Thermal-image sensing devices and their manufacture
2105 4,926,038	Withdrawn
2106 4,924,805	T Pump system for moistener nozzle
2107 4,924,804	T Nozzle control systems for moistener
2108 4,924,093	T Beta counting means and apparatus
2109 4,922,748	T Method for monitoring thinning of pipe walls and piping component for use therewith
2110 4,922,307	T Method and apparatus for improving the measuring accuracy of a micrometer
2111 4,922,187	T Pulse initiator circuit
2112 4,920,969	T Ambulatory physiological evaluation system including cardiac monitoring
2113 4,920,268	T Passive infrared detection system with substantially uniform sensitivity over multiple detection zones
2114 4,918,713	T System and method for correcting for scattered x-rays
2115 4,918,431	T Method and apparatus for automatically adjusting the output power of a transmitter
2116 4,918,313	T Device for counting particles of ionizing radiation and its application to implementing a method of measuring the rate of leakage between the primary and secondary circuits of a steam generator

- 2117 [4,918,308](#) **T** [Integrated detector dewar cryoengine](#)
- 2118 [4,917,611](#) **T** [Ion chamber trainer](#)
- 2119 [4,917,490](#) **T** [Boresight alignment measuring apparatus and method for electro-optic systems](#)
- 2120 [4,917,330](#) **T** [Target seeking projectile](#)
- 2121 [4,916,719](#) **T** [On-line analysis of ash containing slurries](#)
- 2122 [4,916,707](#) **T** [Control circuit for a pulsed gas laser](#)
- 2123 [4,915,502](#) **T** [Interferometer spectrometer having tiltable reflector assembly and reflector assembly therefor](#)
- 2124 [4,914,720](#) **T** [Gas analyzers](#)
- 2125 [4,914,681](#) **T** [Computer tomography apparatus](#)
- 2126 [4,914,588](#) **T** [Computer tomography apparatus for generating an image of a portion of a sectional slice of a subject for use with a lithotripsy apparatus](#)
- 2127 [4,914,302](#) **T** [Radiation image detecting apparatus](#)
- 2128 [4,914,299](#) **T** [Glass cold shield](#)
- 2129 [4,914,298](#) **T** [Infrared detector with direction identification capability](#)
- 2130 [4,914,287](#) **T** [Laser radiation protected horizon sensor with successive reststrahlen](#)
- 2131 [4,914,042](#) **T** [Forming a transition metal silicide radiation detector and source](#)
- 2132 [4,912,643](#) **T** [Position sensing apparatus](#)
- 2133 [4,912,523](#) **T** [Optical fiber communication system comprising mode-stripping means](#)
- 2134 [4,912,331](#) **T** [Security sensors](#)
- 2135 [4,912,321](#) **T** [Radiation scanning system with pupil control](#)
- 2136 [4,911,800](#) **T** [Electrochemically controlled superconductivity](#)
- 2137 [4,910,149](#) **T** [Method and apparatus for detecting radiation](#)
- 2138 [4,909,065](#) **T** [Contained radiological analytical chemistry module](#)
- 2139 [4,906,849](#) **T** [Laser radiation detector using polyvinylidene fluoride film](#)
- 2140 [4,905,579](#) **T** [Radon gas ventilation pump system and method](#)
- 2141 [4,905,151](#) **T** [One dimensional image visual system for a moving vehicle](#)
- 2142 [4,904,577](#) **T** [Optical recording element and alloy for use therein](#)
- 2143 [4,903,693](#) **T** [Xenon inhalation apparatus](#)
- 2144 [4,902,963](#) **T** [Method and arrangement for recording periodic signals with a laser probe](#)
- 2145 [4,902,893](#) **T** [Passive infrared radiation scanning system](#)
- 2146 [4,902,467](#) **T** [Non-destructive testing of nuclear fuel rods](#)
- 2147 [4,902,407](#) **T** [Catalyst inventory control in an ebullated bed process](#)
- 2148 [4,901,126](#) **T** [Radiation detector](#)
- 2149 [4,900,921](#) **T** [System and method for opto-acoustic liquid quantity measurement and transducer therefor](#)
- 2150 [4,900,162](#) **T** [Infrared thermometry system and method](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2151 4,899,283	<u>T Tomographic apparatus including means to illuminate the bounded field of view from a plurality of directions</u>
2152 4,898,464	<u>T Method and apparatus for determining the position of an object</u>
2153 4,898,435	<u>T Dark mirror coated prism</u>
2154 4,897,883	<u>T Infrared remote control apparatus</u>
2155 4,897,550	<u>T Apparatus for the characterization of fissile material having at least one neutron radiation detector located in a gamma radiation detection scintillator</u>
2156 4,897,221	<u>T Process and apparatus for classifying, segregating and isolating radioactive wastes</u>
2157 4,896,200	<u>T Novel semiconductor-based radiation detector</u>
2158 4,895,164	<u>T Infrared clinical thermometer</u>
2159 4,894,539	<u>T Leak detector</u>
2160 4,894,534	<u>T Logging apparatus and method</u>
2161 4,894,526	<u>T Infrared-radiation detector device</u>
2162 4,893,663	<u>T Control system and method for automatic adjustment of lathe components in response to temperature of log</u>
2163 4,893,551	<u>T Fume hood sash sensing apparatus</u>
2164 4,893,018	<u>T Radiation detecting circuit including positional error calibrator</u>
2165 4,893,016	<u>T Gas-cooled semiconductor radiation detector</u>
2166 4,893,013	<u>T Detector and localizer for low energy radiation emissions</u>
2167 4,891,520	<u>T Radiation detector</u>

- 2168 [4,891,514](#) **T** [Device for monitoring radon exposure](#)
- 2169 [4,890,984](#) **T** [Infusion pump system and conduit therefor](#)
- 2170 [4,890,460](#) **T** [Air conditioning apparatus for car](#)
- 2171 [4,889,994](#) **T** [Detection of electromagnetic radiation](#)
- 2172 [4,889,991](#) **T** [Gamma radiation detector with enhanced signal treatment](#)
- 2173 [4,889,984](#) **T** [Radiation detector arrays having reduced number of signal paths](#)
- 2174 [4,888,532](#) **T** [Object sensing apparatus](#)
- 2175 [4,888,486](#) **T** [Scanning nuclear camera with automatic orbit shape modification](#)
- 2176 [4,888,484](#) **T** [Apparatus and method for spectrophotometric analysis of a material in a moving process stream](#)
- 2177 [4,888,476](#) **T** [Optical scanning system for focussing a compact-disk player](#)
- 2178 [4,887,285](#) **T** [Method and device for determining the spatial distribution of chemicals in an object](#)
- 2179 [4,887,211](#) **T** [Image processor](#)
- 2180 [4,886,360](#) **T** [Method and apparatus for particle analysis](#)
- 2181 [4,885,761](#) **T** [Gravity actuated X-ray scanner](#)
- 2182 [4,885,759](#) **T** [Measurement apparatus employing radiation](#)
- 2183 [4,884,855](#) **T** [Narrow-band optical absorption filter](#)
- 2184 [4,884,290](#) **T** [Method of analyzing composition of optical fiber base material to be measured by radioactive rays](#)
- 2185 [4,884,289](#) **T** [X-ray scanner for detecting plastic articles](#)
- 2186 [4,883,967](#) **T** [Radiation detector and method of manufacturing the same](#)
- 2187 [4,883,956](#) **T** [Methods and apparatus for gamma-ray spectroscopy and like measurements](#)
- 2188 [4,883,364](#) **T** [Apparatus for accurately measuring temperature of materials of variable emissivity](#)
- 2189 [4,883,348](#) **T** [Wide field optical system](#)
- 2190 [4,882,780](#) **T** [Scanning monochromator crystal and related method](#)
- 2191 [4,882,573](#) **T** [Apparatus and method for detecting the presence of a burner flame](#)
- 2192 [4,882,567](#) **T** [Intrusion detection system and a method therefor](#)
- 2193 [4,882,495](#) **T** [Scintillation camera](#)
- 2194 [4,882,141](#) **T** [Tissue imaging utilizing labelled steroids](#)
- 2195 [4,882,138](#) **T** [Method for preparation of diamond ceramics](#)
- 2196 [4,881,823](#) **T** [Radiation thermometry](#)
- 2197 [4,881,814](#) **T** [Scanning Michelson interferometer assembly](#)
- 2198 [4,881,813](#) **T** [Passive stabilization of a fiber optic nonlinear interferometric sensor](#)
- 2199 [4,880,981](#) **T** [Low level radiation measurement device](#)
- 2200 [4,880,978](#) **T** [Resonant radiation protector](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2201 4,879,466	T Semiconductor radiation detector
2202 4,879,464	T Radiation imaging apparatus
2203 4,879,121	T Zeolites in poultry feeding
2204 4,878,522	T Paste hopper control system
2205 4,878,234	T Dental x-ray diagnostics installation for producing panorama slice exposures of the jaw of a patient
2206 4,878,186	T Method and circuit for processing narrow band signals located in a wide band having disturbance
2207 4,877,034	T Method and device for detection of tissue infiltration
2208 4,876,454	T Radiation detector
2209 4,876,206	T Methods for detecting rare earth minerals
2210 4,874,953	T Method for generation of tunable far infrared radiation from two-dimensional plasmons
2211 4,874,253	T Radiation detector with temperature display
2212 4,873,941	T Envelope flap moistener
2213 4,873,632	T Apparatus and methods for scatter reduction in radiation imaging
2214 4,873,433	T Electromagnetic radiation detecting device with hollow semicylindrical chopper
2215 4,872,769	T Friction bearing system for a rapidly rotating shaft
2216 4,872,507	T Well bore apparatus arranged for operating in high-temperature wells as well as in low-temperature wells

- 2217 [4,872,421](#) **T** [Method of enhancing mating in poultry](#)
- 2218 [4,872,188](#) **T** [Registration correction for radiographic scanners with sandwich detectors](#)
- 2219 [4,871,965](#) **T** [Environmental testing facility for electronic components](#)
- 2220 [4,871,921](#) **T** [Detector array assembly having bonding means joining first and second surfaces except where detectors are disposed](#)
- 2221 [4,871,891](#) **T** [Microwave oven providing defrosting control](#)
- 2222 [4,870,672](#) **T** [Thermal emittance coating for x-ray tube target](#)
- 2223 [4,870,670](#) **T** [X-ray scanner with secondary radiation detector](#)
- 2224 [4,870,669](#) **T** [Gamma ray flaw detection system](#)
- 2225 [4,870,667](#) **T** [Radiation detector](#)
- 2226 [4,870,280](#) **T** [Radiation detector](#)
- 2227 [4,870,265](#) **T** [Position-sensitive radiation detector](#)
- 2228 [4,870,235](#) **T** [Microwave oven detecting the end of a product defrosting cycle](#)
- 2229 [4,870,234](#) **T** [Microwave oven comprising a defrosting detector](#)
- 2230 [4,870,004](#) **T** [Apparatus and method of analyzing nucleic acid molecules](#)
- 2231 [4,868,902](#) **T** [GaAs capacitive feedback transimpedance amplifier](#)
- 2232 [4,868,856](#) **T** [Multi-component flow measurement and imaging](#)
- 2233 [4,868,391](#) **T** [Infrared lens arrays](#)
- 2234 [4,867,850](#) **T** [Thermal detectors and process for manufacturing the same](#)
- 2235 [4,867,559](#) **T** [Liquid/liquid fiber-optic fluorescence detector and absorbance analyzer](#)
- 2236 [RE33,065](#) **T** [Compact detector for radon and radon daughter products](#)
- 2237 [4,866,743](#) **T** [Computer tomography apparatus with a closed circulation cooling system](#)
- 2238 [4,866,615](#) **T** [Scintillation camera compensation for shifting the center channel of the energy spectrum due to photomultiplier gain change](#)
- 2239 [4,866,496](#) **T** [Charger transfer device \(CTD\), eliminating the background level of a detected signal, detection structure and method of using such a CTD](#)
- 2240 [4,866,400](#) **T** [Automatic pole-zero adjustment circuit for an ionizing radiation spectroscopy system](#)
- 2241 [4,866,277](#) **T** [Conveyor apparatus for detecting radioactive material in garments](#)
- 2242 [4,865,284](#) **T** [Collimator storage device in particular a collimator cart](#)
- 2243 [4,864,139](#) **T** [Radiation detector and monitor](#)
- 2244 [4,864,129](#) **T** [Logging apparatus and method](#)
- 2245 [4,863,693](#) **T** [Analysis instrument having a blow molded reaction chamber](#)
- 2246 [4,862,190](#) **T** [Deployable offset dish structure](#)
- 2247 [4,862,143](#) **T** [Method and apparatus for detecting counterfeit articles](#)
- 2248 [4,862,005](#) **T** [Apparatus for detecting radioactive contaminants on hand tools](#)
- 2249 [4,862,003](#) **T** [Nuclear medical diagnostic apparatus](#)
- 2250 [4,861,998](#) **T** [Rapid fire-detection device for armored vehicles](#)

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SPEC/"radiation detector" ANDNOT GOVT/Government

PAT. NO.	Title
2251 4,861,982	<u>T Scanning optical microscope with position detection grating</u>
2252 4,861,976	<u>T Optical or opto-electronic device having a trapping layer in contact with a semiconductive layer</u>
2253 4,861,164	<u>T Apparatus for separating specular from diffuse radiation</u>
2254 4,861,163	<u>T Ellipsoidal cylinder fluorescence analyzer</u>
2255 4,859,869	<u>T Safety switching means for controlling a current consumer</u>
2256 4,859,859	<u>T Gas analyzers</u>
2257 4,859,858	<u>T Gas analyzers</u>
2258 4,859,028	<u>T Narrow-band optical absorption filter</u>
2259 4,858,824	<u>T Air conditioner</u>
2260 4,858,626	<u>T Method of optimizing the standard weight variation of cigarettes on a dual-rod cigarette manufacturing machine</u>
2261 4,857,737	<u>T Gamma ray measurement utilizing multiple compton scattering</u>
2262 4,857,729	<u>T Method of radioactive well logging</u>
2263 4,856,584	<u>T Method for monitoring and controlling scale formation in a well</u>
2264 4,856,044	<u>T Apparatus for the determination of the osseous mineral content</u>
2265 4,856,043	<u>T Two piece ceramic Soller slit collimator for X-ray collimation</u>
2266 4,856,041	<u>T X-ray detector system</u>
2267 4,853,546	<u>T Automatic radioisotope filling apparatus</u>

- 2268 [4,853,540](#) **T** [Apparatus for recording a radiation image of an object on a stimuable phosphor sheet to facilitate later reconstruction of an arbitrary tomographic image of the object](#)
- 2269 [4,853,538](#) **T** [Radiation detector arrangements and methods](#)
- 2270 [4,852,955](#) **T** [Microscope for use in modular FTIR spectrometer system](#)
- 2271 [4,852,056](#) **T** [Multiple sensor position locating system](#)
- 2272 [4,851,687](#) **T** [Detection of nitrogen in explosives](#)
- 2273 [4,850,691](#) **T** [Method and apparatus for determining pupillary response parameters](#)
- 2274 [4,850,002](#) **T** [Two-dimensional compton profile imaging method](#)
- 2275 [4,850,001](#) **T** [Orifice blockage detection system](#)
- 2276 [4,849,641](#) **T** [Real time non-destructive dose monitor](#)
- 2277 [4,849,634](#) **T** [Modulation device](#)
- 2278 [4,849,627](#) **T** [Photoelectric lithology factor and method of measurement](#)
- 2279 [4,849,622](#) **T** [Panoramic optical system with very sharp beam control](#)
- 2280 [4,849,199](#) **T** [Method for suppressing growth of graphite and other non-diamond carbon species during formation of synthetic diamond](#)
- 2281 [4,849,115](#) **T** [Process for oxidizing organic residues in an aqueous stream](#)
- 2282 [4,848,903](#) **T** [Method and apparatus for measuring the optical axis of a guide beam projector](#)
- 2283 [4,848,902](#) **T** [Device for measuring the intensity profile of a laser beam](#)
- 2284 [4,847,503](#) **T** [Radon progeny detector for measuring attached and unattached fractions](#)
- 2285 [4,847,477](#) **T** [Reducing phase fluctuations in a coherent radiation beam using feedforward control](#)
- 2286 [4,846,637](#) **T** [Infusion pump system and conduit therefor](#)
- 2287 [4,845,731](#) **T** [Radiation data acquisition](#)
- 2288 [4,845,730](#) **T** [Selective on-line measurement of filler components in paper](#)
- 2289 [4,845,716](#) **T** [Arrangement for the wavelength-selective internal intensity modulation and radiation pulse generation of high power CO.sub.2 lasers](#)
- 2290 [4,844,839](#) **T** [In situ treatment and analysis of wastes](#)
- 2291 [4,844,474](#) **T** [Exploding toy apparatus](#)
- 2292 [4,843,603](#) **T** [Concentric photodetector arrangement for focusing and tracking](#)
- 2293 [4,843,245](#) **T** [Scintillation detector for tomographs](#)
- 2294 [4,843,235](#) **T** [Devices for protection of sensors from damaging and interrogating radiation](#)
- 2295 [4,842,774](#) **T** [Pyramiding tumuli waste disposal site and method of construction thereof](#)
- 2296 [4,841,554](#) **T** [X-ray scanner for inspecting articles moving therethrough](#)
- 2297 [4,841,553](#) **T** [Method of and apparatus for carrying out tomography](#)
- 2298 [4,841,284](#) **T** [Infrared intrusion detection system incorporating a fresnel lens and a mirror](#)
- 2299 [D301,696](#) **T** [Infrared radiation detector](#)
- 2300 [4,839,913](#) **T** [Shadowgraph imaging using scatter and fluorescence](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

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Title

- 2301 [4,839,882](#) **T** [Record carrier with an optically readable trackwise-arranged information structure](#)
- 2302 [4,839,586](#) **T** [Apparatus for irradiating electronic circuits](#)
- 2303 [4,838,987](#) **T** [Method of etching a semiconductor body](#)
- 2304 [4,838,692](#) **T** [Temperature-compensated apparatus and method for determining pulp stock consistency](#)
- 2305 [4,838,098](#) **T** [Contained radiological analytical chemistry module](#)
- 2306 [4,837,792](#) **T** [Computer tomography apparatus](#)
- 2307 [4,837,777](#) **T** [Pressure or temperature transducer](#)
- 2308 [4,837,607](#) **T** [Large-area, low capacitance semiconductor arrangement](#)
- 2309 [4,837,437](#) **T** [Method and circuit arrangement for reducing the background count in radioactivity measurements with a coincidence-anticoincidence evaluation](#)
- 2310 [4,835,587](#) **T** [Semiconductor device for detecting radiation](#)
- 2311 [4,834,517](#) **T** [Method and apparatus for receiving optical signals](#)
- 2312 [4,834,194](#) **T** [Method and apparatus for detection of volatile soil contaminants in situ](#)
- 2313 [4,833,889](#) **T** [Thermoelectric refrigeration apparatus](#)
- 2314 [4,832,496](#) **T** [Method and apparatus for measuring the monocrystal diameter and the melt level during crucible drawing in the Czochralski process](#)
- 2315 [4,832,491](#) **T** [Method of and apparatus for spectroscopically analyzing samples](#)
- 2316 [4,831,639](#) **T** [Computer tomography apparatus](#)
- 2317 [4,831,263](#) **T** [Position-sensitive radiation detector](#)

- 2318 [4,831,258](#) **T** [Dual sensor radiation detector](#)
- 2319 [4,830,617](#) **T** [Apparatus for simulated shooting](#)
- 2320 [4,830,193](#) **T** [Gold ore sorting](#)
- 2321 [4,829,549](#) **T** [Densitometer for scanning os calcis for predicting osteoporosis](#)
- 2322 [4,829,448](#) **T** [Air-in-line detector](#)
- 2323 [4,829,185](#) **T** [Neutron and/or gamma radiation detecting system](#)
- 2324 [4,829,184](#) **T** [Reflective, transmissive high resolution imaging apparatus](#)
- 2325 [4,827,129](#) **T** [Sweep device for a storage luminescent screen](#)
- 2326 [4,826,316](#) **T** [Radiation detection apparatus](#)
- 2327 [4,825,454](#) **T** [Tomographic imaging with concentric conical collimator](#)
- 2328 [4,825,425](#) **T** [Parking meter reset device](#)
- 2329 [4,825,078](#) **T** [Radiation sensor](#)
- 2330 [4,825,077](#) **T** [Process control system and method](#)
- 2331 [4,825,076](#) **T** [Infra-red spectrophotometric apparatus](#)
- 2332 [4,825,075](#) **T** [Non-electronic gain control](#)
- 2333 [4,825,063](#) **T** [Radiation position detection using time-indicative variable-length fiber array](#)
- 2334 [4,824,660](#) **T** [Method of determining the viability of tissue in an organism](#)
- 2335 [4,823,369](#) **T** [Dental x-ray diagnostics installation for producing panorama slice exposures of the jaw of a patient](#)
- 2336 [4,823,007](#) **T** [DNA sequencing gel reading system and method](#)
- 2337 [4,822,552](#) **T** [Method and apparatus for passively gamma scanning a nuclear fuel rod](#)
- 2338 [4,822,127](#) **T** [Multi-channel optical transmission system](#)
- 2339 [4,821,337](#) **T** [Radiation scanner uniformity system](#)
- 2340 [4,821,304](#) **T** [Detection methods and apparatus for non-destructive inspection of materials with radiation](#)
- 2341 [4,820,526](#) **T** [Method of improving feathering in birds](#)
- 2342 [4,819,268](#) **T** [Transmitter having means for controlling undesired out-of-band radiation](#)
- 2343 [4,819,256](#) **T** [Radiographic sensitivity for detection of flaws and cracks](#)
- 2344 [4,819,068](#) **T** [Time discrete digital reformattor](#)
- 2345 [4,818,705](#) **T** [Method and apparatus for analyzing the composition of the exhaust gas of any internal combustion engine](#)
- 2346 [4,818,357](#) **T** [Method and apparatus for sputter deposition of a semiconductor homojunction and semiconductor homojunction products created by same](#)
- 2347 [4,817,883](#) **T** [Measuring device for the pressing zone width of a roller on a roll of material and process and controller for making the roll with a predetermined roll hardness](#)
- 2348 [4,817,122](#) **T** [Apparatus for radiation analysis](#)
- 2349 [4,817,119](#) **T** [Method and apparatus for computerized tomographic scanning with plural intersecting sets of parallel radiation beams](#)
- 2350 [4,816,686](#) **T** [Method and apparatus for detecting wiring patterns](#)

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PAT. NO.	Title
2351 4,815,858	<u>T Reflectometers</u>
2352 4,815,841	<u>T High resolution color band pyrometer ratioing</u>
2353 4,815,115	<u>T Method of photographing an object with a panoramic X-ray apparatus fitted with automatic exposure</u>
2354 4,814,620	<u>T Tilted array with parallel cold shield</u>
2355 4,814,610	<u>T Method for more accurately determining thermal neutron decay time constants</u>
2356 4,814,605	<u>T Entrance system for a photodetector having a 180 degree image angle and detector provided therewith</u>
2357 4,812,827	<u>T Detector and light assembly</u>
2358 4,812,653	<u>T Sharp edge for thick coatings</u>
2359 4,812,041	<u>T Spectrometer system having pivotally mounted internal reflectance element</u>
2360 4,811,373	<u>T Bone densitometer</u>
2361 4,809,312	<u>T Method and apparatus for producing tomographic images</u>
2362 4,809,172	<u>T Method for obtaining image data with a tomographic apparatus</u>
2363 4,808,831	<u>T Container for wet and dry radioactive samples</u>
2364 4,808,809	<u>T Device for optically detecting the presence or absence of an object on an optical path including a variable I-V characteristic circuit to effect in a positive feedback relationship between the radiation source and the radiation detector</u>
2365 4,808,380	<u>T Automatic chemical analyzing apparatus</u>
2366 4,807,268	<u>T Scanning monochromator crystal and method of formation</u>

- 2367 [4,807,007](#) **T** [Mis infrared detector having a storage area](#)
- 2368 [4,806,763](#) **T** [Infrared radiation detection device](#)
- 2369 [4,806,762](#) **T** [Thermal radiation detector](#)
- 2370 [4,806,760](#) **T** [Radiation detectors having mechanical resonation](#)
- 2371 [4,806,747](#) **T** [Optical direction of arrival sensor with cylindrical lens](#)
- 2372 [4,806,723](#) **T** [Weld monitoring](#)
- 2373 [4,805,202](#) **T** [Portable field X-ray diagnostic system](#)
- 2374 [4,804,848](#) **T** [Ionizing radiation detector for detecting the direction and intensity of the radiation](#)
- 2375 [4,804,847](#) **T** [Radiation detector with an ionizable gas atop an integrated circuit](#)
- 2376 [4,803,688](#) **T** [Ordered colloidal suspension optical devices](#)
- 2377 [4,803,363](#) **T** [Infrared detector with integral feedback capacitance](#)
- 2378 [4,803,360](#) **T** [Infrared radiation detector with flanged semiconductor window](#)
- 2379 [H590](#) **T** [High-efficiency scintillation detector for combined of thermal and fast neutrons and gamma radiation](#)
- 2380 [4,801,804](#) **T** [Method and apparatus for near infrared reflectance measurement of non-homogeneous materials](#)
- 2381 [4,801,803](#) **T** [Detector and localizer for low energy radiation emissions](#)
- 2382 [4,801,209](#) **T** [Process and apparatus for analyzing a gaseous mixture and a visible emission spectrum generator therefor](#)
- 2383 [4,800,580](#) **T** [X-ray analysis apparatus](#)
- 2384 [4,800,547](#) **T** [Optical record carrier scanning apparatus with scanning beam focus error detection](#)
- 2385 [4,800,272](#) **T** [Environmental gamma-ray and radon detector](#)
- 2386 [4,799,787](#) **T** [Optical fibre radiation pyrometer](#)
- 2387 [4,799,453](#) **T** [Apparatus for the solidification of liquid films](#)
- 2388 [4,797,660](#) **T** [Photoelectric ice accumulation monitor using dual detectors](#)
- 2389 [4,797,558](#) **T** [Inspection apparatus including photodetection and scanning apparatus](#)
- 2390 [4,796,688](#) **T** [Method for controlling the melting and casting process in precision casting, particularly for dental engineering, and arrangement for carrying out the method](#)
- 2391 [4,796,183](#) **T** [Rotating data transmission device](#)
- 2392 [RE32,821](#) **T** [Apparatus and method for photoluminescence analysis](#)
- 2393 [4,794,257](#) **T** [Quantum-counting radiography](#)
- 2394 [4,794,256](#) **T** [Fast neutron process measurement system](#)
- 2395 [4,793,944](#) **T** [Crystalline lanthanum-oxy-halide phosphor activated with rare earths](#)
- 2396 [4,792,756](#) **T** [Method and apparatus for measuring axially extending defects in ferromagnetic elements](#)
- 2397 [4,791,817](#) **T** [Method of determination and monitoring of fuel mass stream](#)
- 2398 [4,791,656](#) **T** [One-block calibration method for density gauges](#)
- 2399 [4,791,414](#) **T** [Water-flow detector](#)
- 2400 [4,791,298](#) **T** [Infrared detectors](#)

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PAT. NO.	Title
2401 4,791,297	T Yaw sensing conical scanner horizon sensor
2402 4,791,280	T Method of operating a security device, security device and data carriers for use in the method
2403 4,789,992	T Optical temperature measurement techniques
2404 4,789,930	T Energy dependent gain correction for radiation detection
2405 4,789,820	T Apparatus and method for sensing multiple parameters of sheet material
2406 4,789,770	T Controlled depth laser drilling system
2407 4,789,246	T Radiation detector or the like
2408 4,788,853	T Moisture meter
2409 4,788,852	T Metering choke
2410 4,788,436	T Radiation sensitive optical fiber and detector
2411 4,788,424	T Method and apparatus for determining partitioning of borehole and formation constituents
2412 4,786,810	T Solid state counting system for beta and gamma isotopes of all energies
2413 4,786,169	T Optical analytical instrument for testing the transmission and reflection of a sample
2414 4,785,401	T Method and device for determining an energy-independent X-ray attenuation factor in a region of an object
2415 4,785,354	T Tire load test CT scanner
2416 4,785,292	T Dual spectrum frequency responding fire sensor
2417 4,785,168	T Device for detecting and localizing neutral particles, and application thereof

- 2418 [4,783,995](#) **T** [Logging tool](#)
- 2419 [4,783,794](#) **T** [Baggage inspection system](#)
- 2420 [4,783,596](#) **T** [Solid state scintillator and treatment therefor](#)
- 2421 [4,783,594](#) **T** [Reticular detector array](#)
- 2422 [4,783,341](#) **T** [Method and apparatus for measuring the density and hardness of porous plasma sprayed coatings](#)
- 2423 [4,783,253](#) **T** [Process for separating radioactive and hazardous metal contaminants from soils](#)
- 2424 [4,782,840](#) **T** [Method for locating, differentiating, and removing neoplasms](#)
- 2425 [4,782,502](#) **T** [Flexible calibration phantom for computer tomography system](#)
- 2426 [4,782,377](#) **T** [Semiconducting metal silicide radiation detectors and source](#)
- 2427 [4,782,331](#) **T** [Photoelectric icing detector](#)
- 2428 [4,782,234](#) **T** [Method and apparatus for subsurface contaminant detection and measurement](#)
- 2429 [4,782,230](#) **T** [Arrangement for the quality testing of a resistance welded connection](#)
- 2430 [4,781,593](#) **T** [Lead angle correction for weapon simulator apparatus and method](#)
- 2431 [4,781,548](#) **T** [Infusion pump system and conduit therefor](#)
- 2432 [4,781,198](#) **T** [Biopsy tracer needle](#)
- 2433 [4,780,832](#) **T** [Radiation probe and method of use](#)
- 2434 [4,780,672](#) **T** [Laser driven helium magnetometers](#)
- 2435 [4,779,453](#) **T** [Method for monitoring thinning of pipe walls](#)
- 2436 [4,779,000](#) **T** [Detector/dosimeter for gamma and microwave radiation](#)
- 2437 [4,777,785](#) **T** [Method of guiding a robotic lawnmower](#)
- 2438 [4,776,409](#) **T** [Insitu waste impoundment treating apparatus and method of using same](#)
- 2439 [4,775,638](#) **T** [Single vial technique for radiolabeling protein](#)
- 2440 [4,773,757](#) **T** [High resolution spectrometer interferometer having an integrated alignment unit](#)
- 2441 [4,772,797](#) **T** [Ceiling mounted passive infrared intrusion detector with prismatic window](#)
- 2442 [4,772,792](#) **T** [Pulser stabilized radiation detector](#)
- 2443 [4,771,173](#) **T** [Contactless apparatus and method for thickness determination of coatings](#)
- 2444 [4,770,415](#) **T** [Game](#)
- 2445 [4,769,832](#) **T** [Isocentric examination stand](#)
- 2446 [4,769,533](#) **T** [Circuit arrangement for a position-sensitive radiation detector](#)
- 2447 [4,769,531](#) **T** [Direction finder system with inclined detectors](#)
- 2448 [4,768,736](#) **T** [Information transmission system](#)
- 2449 [4,768,072](#) **T** [Multilayer semiconductor device having an amorphous carbon and silicon layer](#)
- 2450 [4,767,934](#) **T** [Active ranging system](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2451 4,767,929	T Extended range radiation dose-rate monitor
2452 4,767,928	T High resolution breast imaging device utilizing non-ionizing radiation of narrow spectral bandwidth
2453 4,767,922	T Hand presence activated water faucet controller
2454 4,766,319	T Portable nuclear moisture-density gauge with low activity nuclear sources
2455 4,766,315	T Apparatus and process for measuring physical parameters of sheet material
2456 4,765,244	T Apparatus for the detection and destruction of incoming objects
2457 4,764,025	T Turbine blade temperature detecting pyrometer
2458 4,763,522	T Radiation detector psychrometer
2459 4,760,271	T Apparatus and process for measuring formation and roughness of a paper web
2460 4,760,260	T Diagnostic whole body counter
2461 4,760,228	T Microwave heating device
2462 4,759,932	T Method of reducing heat stress in animals
2463 4,759,047	T Baggage inspection system
2464 4,755,677	T Tank content gauging system
2465 4,755,675	T Gas analyzer and a source of IR radiation therefor
2466 4,755,674	T Infrared detector
2467 4,754,384	T Triggerable superconductive switching means, and apparatus comprising the means
2468 4,753,106	T Steam quality meter

- 2469 [4,752,799](#) **T** [Optical proximity sensing optics](#)
- 2470 [4,752,780](#) **T** [Opto-electronic satellite antenna position sensor](#)
- 2471 [4,752,769](#) **T** [Infrared motion alarm](#)
- 2472 [4,751,986](#) **T** [Rotor rotating angle limiter](#)
- 2473 [4,751,722](#) **T** [X-ray apparatus](#)
- 2474 [4,751,644](#) **T** [Interleaved source fan reconstruction technique](#)
- 2475 [4,751,571](#) **T** [Composite visible/thermal-infrared imaging apparatus](#)
- 2476 [4,750,989](#) **T** [Catalyst inventory determination](#)
- 2477 [4,749,952](#) **T** [Light amplifier based on the magnetoelectric-photo effect](#)
- 2478 [4,749,862](#) **T** [Scanning fire-monitoring system](#)
- 2479 [4,749,248](#) **T** [Device for tapping radiation from, or injecting radiation into, single made optical fiber, and communication system comprising same](#)
- 2480 [4,747,918](#) **T** [Electroelution apparatus and method of using same](#)
- 2481 [4,747,647](#) **T** [Optical scanning device](#)
- 2482 [4,747,610](#) **T** [Pallet sensor for lift truck](#)
- 2483 [4,747,574](#) **T** [Apparatus for acquisition of the surface shape of a distant object by means of picture element scanning](#)
- 2484 [4,746,906](#) **T** [Dual technology intruder detection system with modular optics](#)
- 2485 [4,745,795](#) **T** [Apparatus for measuring gases dissolved in water](#)
- 2486 [4,745,449](#) **T** [Integrated electronics suitable for optical communications](#)
- 2487 [4,745,343](#) **T** [Panoramic optical system with very sharp beam control](#)
- 2488 [4,743,775](#) **T** [Absorption gauge for determining the thickness, moisture content or other parameter of a film of coating](#)
- 2489 [4,743,362](#) **T** [Process and device for controlling the electrostatic separation of crude potash salts in electrostatic free fall separators](#)
- 2490 [4,742,573](#) **T** [Identification card including optically powered electronic circuit](#)
- 2491 [4,742,340](#) **T** [Method and apparatus for detecting counterfeit articles](#)
- 2492 [4,742,337](#) **T** [Light-curtain area security system](#)
- 2493 [4,742,248](#) **T** [Random signal isolation circuit](#)
- 2494 [4,742,217](#) **T** [Projection alignment and focusing aid](#)
- 2495 [4,739,819](#) **T** [Level measurement using a radiation source](#)
- 2496 [4,739,167](#) **T** [Device for synchronous modulation, synchronous light-path switch-over and control-signal derivation for step-drive controlled modulation and switch-over devices](#)
- 2497 [4,738,496](#) **T** [High speed infrared wide angle lens system](#)
- 2498 [4,737,910](#) **T** [Apparatus for tracking inventory](#)
- 2499 [4,737,038](#) **T** [Immersion infrared thermometer for molten materials](#)
- 2500 [4,737,000](#) **T** [Apparatus for diverting electromagnetic radiation from sensitive optical apparatus](#)

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PAT. NO.	Title
2501 4,736,103	T Spectrometer test gas chamber
2502 4,735,763	T Fusion power monitor
2503 4,735,684	T Multistage pulp bleaching control process
2504 4,733,653	T Radiotherapy apparatus
2505 4,733,409	T Cassette receptacle for x-ray film cassettes
2506 4,733,383	T Combined digital and analog timepiece and radiation monitor assembly
2507 4,733,088	T Radiation detector
2508 4,731,534	T X-ray detector system
2509 4,731,531	T Method of logging a well using a non-radioactive material irradiated into an isotope exhibiting a detectable characteristic
2510 4,730,922	T Absorbance, turbidimetric, fluorescence and nephelometric photometer
2511 4,728,794	T Radiation sensing arrangements
2512 4,728,375	T Pyrotechnic composition for producing radiation-blocking screen
2513 4,727,564	T Portable field X-ray diagnostic system
2514 4,727,256	T Semiconductor radiation detector
2515 4,727,251	T Detector for helicopter blade crack indicator
2516 4,726,046	T X-ray and electron radiotherapy clinical treatment machine
2517 4,725,963	T Method and apparatus for dimensional analysis and flaw detection of continuously produced tubular objects

- 2518 [4,725,735](#) **T** [Power supply for electrical detectors particularly for gamma radiation monitors](#)
- 2519 [4,725,734](#) **T** [Radiation-detecting device for computed tomography](#)
- 2520 [4,722,604](#) **T** [Radiation interference devices](#)
- 2521 [4,722,096](#) **T** [Apparatus for transradiating objects on a conveyor path](#)
- 2522 [4,721,386](#) **T** [Three-axis angular monitoring system](#)
- 2523 [4,719,350](#) **T** [Radiation imaging enhancement](#)
- 2524 [4,719,342](#) **T** [Electromagnetic energy diversion device wherein pellicle oblates responsive to very strong power density](#)
- 2525 [4,718,028](#) **T** [Extremely high speed, real-time background filter for radiation detectors](#)
- 2526 [4,718,010](#) **T** [CT system for creating image data from high and low energy radiation](#)
- 2527 [4,717,910](#) **T** [Detector and light assembly](#)
- 2528 [4,717,907](#) **T** [Remote parameter monitoring system with location-specific indicators](#)
- 2529 [4,717,821](#) **T** [Flat wide-angle lens array with a common focus](#)
- 2530 [4,717,363](#) **T** [Dolls or similar toys](#)
- 2531 [4,716,742](#) **T** [Cryogenic system for radiation detectors](#)
- 2532 [4,715,718](#) **T** [Method and apparatus for on-line monitoring of laminate bond strength](#)
- 2533 [4,715,717](#) **T** [Method for monitoring surface texture and quality for moving transparent film bodies](#)
- 2534 [4,715,442](#) **T** [Apparatus for servicing tubular strings in subterranean wells](#)
- 2535 [4,713,544](#) **T** [Optical system for the simultaneous reception of thermal and laser radiation](#)
- 2536 [4,712,006](#) **T** [Steam quality measurement apparatus and method](#)
- 2537 [4,711,998](#) **T** [Direction finder system with mirror array](#)
- 2538 [4,710,712](#) **T** [Method and apparatus for measuring defects in ferromagnetic elements](#)
- 2539 [4,709,559](#) **T** [Cooling system for relatively movable components](#)
- 2540 [4,709,382](#) **T** [Imaging with focused curved radiation detectors](#)
- 2541 [4,709,153](#) **T** [Intruder detector](#)
- 2542 [4,709,150](#) **T** [Method and apparatus for detecting gas](#)
- 2543 [4,708,878](#) **T** [Process for temperature controlling a liquid](#)
- 2544 [4,708,759](#) **T** [Edge locating device](#)
- 2545 [4,707,822](#) **T** [Tomographic apparatus](#)
- 2546 [4,707,652](#) **T** [Impurity detector measuring parallel polarized scattered electromagnetic radiation](#)
- 2547 [4,707,235](#) **T** [Electrophoresis method and apparatus having continuous detection means](#)
- 2548 [4,707,131](#) **T** [Optical arrangement for photometrical analysis measuring devices](#)
- 2549 [4,705,616](#) **T** [Electrophoresis-mass spectrometry probe](#)
- 2550 [4,704,632](#) **T** [Electronic camera for digital processing of CCD data](#)

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PAT. NO.	Title
2551 4,704,580	<u>T Method and apparatus for measuring the depth of local defects in ferromagnetic elements</u>
2552 4,704,534	<u>T Thermal radiation detector</u>
2553 4,704,533	<u>T Infrared intruder detection system</u>
2554 4,704,297	<u>T Assessing powder coatings</u>
2555 4,703,168	<u>T Multiplexed wedge anode detector</u>
2556 4,701,941	<u>T Radiation source</u>
2557 4,701,624	<u>T Fire sensor system utilizing optical fibers for remote sensing</u>
2558 4,701,621	<u>T Monitor for airborne radioactive particles</u>
2559 4,701,607	<u>T Temperature control laser detection apparatus</u>
2560 4,701,049	<u>T Measuring system employing a measuring method based on the triangulation principle for the non-contact measurement of a distance from the surface of a contoured object to a reference level.</u>
2561 4,700,073	<u>T Photometer</u>
2562 4,698,832	<u>T Procedure and means for measuring with the aid of a radio-isotope source the distribution of fillers in a web</u>
2563 4,698,501	<u>T System for simultaneous gamma-gamma formation density logging while drilling</u>
2564 4,697,081	<u>T Infra-red radiation detector devices</u>
2565 4,696,788	<u>T Process and device for detecting defective cladding sheaths in a nuclear fuel assembly</u>

- 2566 [4,696,385](#) **T** [Electronic coin detection apparatus](#)
- 2567 [4,696,024](#) **T** [Method and apparatus for detecting flaws in single crystal test samples](#)
- 2568 [4,696,022](#) **T** [Stereoscopic radiography apparatus and method](#)
- 2569 [4,695,730](#) **T** [Local radiation exposure alarm apparatus](#)
- 2570 [4,695,728](#) **T** [Portable radiation contamination detector](#)
- 2571 [4,695,715](#) **T** [Infrared imaging array employing metal tabs as connecting means](#)
- 2572 [4,695,698](#) **T** [Method of, and apparatus for, generating a predetermined pattern using laser radiation](#)
- 2573 [4,695,139](#) **T** [Plural-zone mirror focusing system](#)
- 2574 [4,694,177](#) **T** [Radiation detector having high efficiency in conversion of absorbed X-rays into light](#)
- 2575 [4,694,172](#) **T** [Detection of fires and explosions](#)
- 2576 [4,693,377](#) **T** [Diamond separation using raman scattering](#)
- 2577 [4,692,937](#) **T** [Radiography apparatus and method](#)
- 2578 [4,692,890](#) **T** [Method and integrator circuit for integrating signals, in particular for scintillation gamma camera](#)
- 2579 [4,692,782](#) **T** [Semiconductor radioactive ray detector](#)
- 2580 [4,692,625](#) **T** [Detector head mounting mechanism and supporting structure](#)
- 2581 [4,692,624](#) **T** [Emission computed tomography apparatus](#)
- 2582 [4,692,621](#) **T** [Digital anesthetic agent analyzer](#)
- 2583 [4,692,617](#) **T** [Method and system for neutron lifetime logging](#)
- 2584 [4,692,616](#) **T** [Basis weight gauge standardizing method and system](#)
- 2585 [4,691,801](#) **T** [Vehicle protection device](#)
- 2586 [4,691,783](#) **T** [Automatic modular fire extinguisher system for computer rooms](#)
- 2587 [4,691,334](#) **T** [X-ray examination apparatus](#)
- 2588 [4,691,196](#) **T** [Dual spectrum frequency responding fire sensor](#)
- 2589 [4,691,107](#) **T** [Infra red photo detector systems](#)
- 2590 [4,691,103](#) **T** [Microscope for non-differentiated phase image formation](#)
- 2591 [4,690,900](#) **T** [Procedure for photometric measurement of liquids in reaction vessels, and reaction vessel](#)
- 2592 [4,689,649](#) **T** [Semiconductor radiation detector](#)
- 2593 [4,689,487](#) **T** [Radiographic image detection apparatus](#)
- 2594 [4,689,486](#) **T** [Folded optical system for radiation detection device](#)
- 2595 [4,687,928](#) **T** [Position detector](#)
- 2596 [4,687,683](#) **T** [Scintillator for radiation detection and process for producing the same](#)
- 2597 [4,687,622](#) **T** [Nuclear event detector](#)
- 2598 [4,686,694](#) **T** [Probe for an apparatus for analyzing metals by X-ray fluorescence](#)
- 2599 [4,686,368](#) **T** [Apparatus and method for reading two-dimensional electrophoretograms containing .beta.-ray-emitting labeled compounds](#)
- 2600 [4,684,806](#) **T** [Rhenium lined Geiger-Mueller tube](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2601 4,684,456	<u>T Control of bed expansion in expanded bed reactor</u>
2602 4,684,251	<u>T Spectrometer</u>
2603 4,683,749	<u>T Process and system for detecting and measuring a tritium gas leak</u>
2604 4,682,888	<u>T Spectral analyzer and direction indicator</u>
2605 4,682,594	<u>T Probe-and-fire lasers</u>
2606 4,682,035	<u>T Solid state counting system for high energy beta and gamma decay isotopes</u>
2607 4,682,034	<u>T Blast wave densitometer system</u>
2608 4,682,030	<u>T Infrared radiation detector with integral fresnel lens window</u>
2609 4,682,029	<u>T Stereoscopic infrared imager having a time-shared detector array</u>
2610 4,682,024	<u>T Laser radiation warning sensor utilizing polarization</u>
2611 4,681,443	<u>T Optical detector cell</u>
2612 4,680,594	<u>T Single beam direct read during write and write protect system for use in an optical data storage system</u>
2613 4,680,470	<u>T Method and apparatus for crack detection and characterization</u>
2614 4,679,218	<u>T X-ray diagnostic installation having a control system for the x-ray tube high voltage</u>
2615 4,679,142	<u>T Radioactive material billing system and method</u>
2616 4,679,068	<u>T Composite visible/thermal-infrared imaging system</u>
2617 4,678,918	<u>T Integrated radiation detector</u>
2618 4,678,915	<u>T System and process for measuring and correcting the values of a parameter of a</u>

sheet material

- 2619 4,678,073 **T** Apparatus and methods for handling bulk arrays of articles
- 2620 4,677,740 **T** Forming monolithic planar opto-isolators by selective implantation and proton bombardment
- 2621 4,677,554 **T** Tomography data acquisition system with variable sampling rate and/or conversion resolution of detector output signals
- 2622 4,677,300 **T** Radiation detection and acquisition system
- 2623 4,677,294 **T** Self-calibrating radiation sensors and control for radiation sensors
- 2624 4,675,893 **T** Apparatus for slit radiography
- 2625 4,675,527 **T** Corrosion monitoring probe
- 2626 4,673,817 **T** Measuring system for contactless measuring the distance between a predetermined point of an object surface and a reference level
- 2627 4,672,650 **T** Tomographic testing apparatus
- 2628 4,668,635 **T** Method of detecting reative gases in a gas mixture
- 2629 4,666,245 **T** Fibre-optic cable assemblies and radiation pyrometers
- 2630 4,665,385 **T** Hazardous condition monitoring system
- 2631 4,664,872 **T** Device for disposing of elongated core instrumentation probes from nuclear reactors
- 2632 4,663,774 **T** X-ray diagnostics installation with rotatable support plate
- 2633 4,663,772 **T** Bone mineral analysis phantom
- 2634 4,663,531 **T** Mechanism to mount a collimator to a radiation detector of a nuclear medicine diagnostic apparatus
- 2635 4,663,521 **T** Infrared radiation controlled switch with a visible light detector
- 2636 4,663,513 **T** Method and apparatus for monitoring laser processes
- 2637 4,663,113 **T** Reactor radioactive emission monitor
- 2638 4,661,704 **T** Image recording and readout device based on light-stimulable phosphors
- 2639 4,661,700 **T** Well logging sonde with shielded collimated window
- 2640 4,660,563 **T** Method and means for detection of arterial lesions
- 2641 4,660,151 **T** Multicomponent quantitative analytical method and apparatus
- 2642 4,660,024 **T** Dual technology intruder detection system
- 2643 4,659,984 **T** Passive integrating electromagnetic field dosimeter
- 2644 4,658,601 **T** Cryogenic cell
- 2645 4,658,386 **T** Ultrasonic sound wave generating device for repelling animals
- 2646 4,658,222 **T** Radiation detector spectrum simulator
- 2647 4,658,142 **T** Apparatus for detecting radiation in a container
- 2648 4,657,868 **T** Apparatus for testing reactions
- 2649 4,657,724 **T** Neutron generator ion source pulser
- 2650 4,657,397 **T** Light collector and its use for spectroscopic purposes

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PAT. NO.	Title
2651 4,657,390	T Universal spectrometer system having modular sampling chamber
2652 4,657,385	T Pyrometer apparatus
2653 4,657,169	T Non-contact detection of liquefaction in meltable materials
2654 4,656,359	T Scintillation crystal for a radiation detector
2655 4,654,795	T Image processing systems and methods
2656 4,654,622	T Monolithic integrated dual mode IR/mm-wave focal plane sensor
2657 4,654,528	T Radiation level reporting system
2658 4,653,109	T Image analysis system and method
2659 4,652,899	T Radiation-sensitive semiconductor device having reduced capacitance
2660 4,652,760	T Data collector for use with scintillation camera or the like
2661 4,652,759	T Counterbalanced radiation detection system
2662 4,652,756	T Automated acousto-optic infra-red analyzer system for monitoring stack emissions
2663 4,652,143	T Optical temperature measurement techniques
2664 4,651,800	T Level meter in a mold for continuous casting
2665 4,651,343	T Piezoelectric apparatus for positioning optical fibers
2666 4,651,338	T Cooling system for a tomograph apparatus
2667 4,651,007	T Medical diagnostic mechanical positioner
2668 4,650,989	T Alignment apparatus for photoelectric intrusion detector system
2669 4,649,462	T Viewing angle color sensitive lighting accessory

- 2670 4,649,276 [T High-energy radiation detector and method of detection](#)
- 2671 4,649,269 [T Dynodes arrangement for an electron multiplier](#)
- 2672 4,647,767 [T Optical goniometer containing immiscible fluids having different refractive indices](#)
- 2673 4,646,978 [T Method for sorting radioactive waste](#)
- 2674 4,646,334 [T Radiographic test phantom for computed tomographic lung nodule analysis](#)
- 2675 4,644,167 [T Radiation dose rate measuring device](#)
- 2676 4,644,164 [T Compact passive infrared intrusion sensor](#)
- 2677 4,642,687 [T Superimposition of non-visual signals upon an image signal in a video display system](#)
- 2678 4,642,471 [T Scattered radiation smoke detector](#)
- 2679 4,642,469 [T Three-dimensional reflectors for object attitude recognition](#)
- 2680 4,642,463 [T Intelligent radiation monitor](#)
- 2681 4,641,917 [T Single mode optical fiber](#)
- 2682 4,641,650 [T Probe-and-fire lasers](#)
- 2683 4,639,943 [T X-ray diagnostic system with automatic control of radiation exposure](#)
- 2684 4,639,941 [T Radiography](#)
- 2685 4,639,874 [T System for monitoring and controlling position of hoists](#)
- 2686 4,639,600 [T Radiation detector](#)
- 2687 4,638,817 [T Device for controlling contents of tobacco on cigarette machine](#)
- 2688 4,638,499 [T High resolution collimator system for X-ray detector](#)
- 2689 4,638,158 [T Gamma ray measurement of earth formation properties using a position sensitive scintillation detector](#)
- 2690 4,637,040 [T Plural source computerized tomography device with improved resolution](#)
- 2691 4,636,727 [T Method and apparatus for detecting the location of defects in tubular sections moving past a well head](#)
- 2692 4,636,475 [T Apparatus and method for monitoring stored material](#)
- 2693 4,636,091 [T Radiation detector having temperature readout](#)
- 2694 4,636,033 [T Optical fiber splice and methods of making](#)
- 2695 4,635,215 [T Article or seed counter](#)
- 2696 4,634,968 [T Wide range radiation monitor](#)
- 2697 4,634,861 [T Rotary switch with reflector coded actuator drum](#)
- 2698 4,634,855 [T Photoelectric article sensor with facing reflectors](#)
- 2699 4,633,420 [T Profile measurement apparatus using radiation](#)
- 2700 4,633,089 [T Hand held radiation detector](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2701 4,632,621	T Component stack feed device
2702 4,631,411	T Radiation measuring apparatus and method
2703 4,631,405	T Method and apparatus for dual-spaced fast/epithermal neutron porosity measurements
2704 4,631,398	T Apparatus for receiving electromagnetic radiation
2705 4,629,991	T Methods and apparatus for detecting tubular defects having a plurality of expandable arcuate segments
2706 4,629,985	T Method and apparatus for measuring defects in tubular members
2707 4,629,897	T Automatic high insulation switch
2708 4,629,893	T Device for detachably securing a collimator to a radiation detector
2709 4,629,888	T Well logging tool for hot well bores
2710 4,629,884	T Electromagnetic radiation circuit element insensitive to external radiation
2711 4,628,204	T Optical method to study the stability of colloidal systems
2712 4,626,688	T Split energy level radiation detection
2713 4,626,686	T Variable field of view heat scanner
2714 4,625,389	T Infrared radiation detectors
2715 4,625,117	T Multi-cell radiation detector
2716 4,625,116	T Structure for supporting a detector head
2717 4,624,527	T Radiation-utilizing measurement system

- 2718 [4,623,248](#) **T** [Apparatus and method for determining oxygen saturation levels with increased accuracy](#)
- 2719 [4,622,463](#) **T** [Two-pulse tracer ejection method for determining injection profiles in wells](#)
- 2720 [4,621,194](#) **T** [Radiation detecting apparatus](#)
- 2721 [4,620,421](#) **T** [Temperature stabilization system](#)
- 2722 [4,620,231](#) **T** [CCD imager with photodetector bias introduced via the CCD register](#)
- 2723 [4,620,105](#) **T** [Device for attaching a collimator to a radiation detector](#)
- 2724 [4,618,939](#) **T** [Nuclear densometer](#)
- 2725 [4,618,775](#) **T** [Radiation detector circuit with real time photon counting](#)
- 2726 [4,618,765](#) **T** [Gamma ray measurement of earth formation properties using a position sensitive scintillation detector](#)
- 2727 [4,618,212](#) **T** [Optical fiber splicing using leaky mode detector](#)
- 2728 [4,617,680](#) **T** [Dead time compensation circuit for radiation detector](#)
- 2729 [4,617,465](#) **T** [Radiation detector vessel](#)
- 2730 [4,617,463](#) **T** [Segmented optical system for an alarm system](#)
- 2731 [4,616,159](#) **T** [Driving circuit for pulsating radiation detector](#)
- 2732 [4,616,136](#) **T** [Infra-red radiation detector](#)
- 2733 [4,614,870](#) **T** [Miniature isotopic soil moisture gage](#)
- 2734 [4,613,233](#) **T** [Sine bar mechanism and monochromator and spectrophotometer including such a sine bar mechanism](#)
- 2735 [4,611,955](#) **T** [Slurry pump tram control apparatus](#)
- 2736 [4,611,224](#) **T** [Semiconductor radiation detector](#)
- 2737 [4,608,992](#) **T** [External magnetic detection of physiopathological and other parameters](#)
- 2738 [4,608,655](#) **T** [Wristwatch dosimeter](#)
- 2739 [4,607,165](#) **T** [Process and apparatus for detecting atmospheric contamination by alpha particle aerosols](#)
- 2740 [4,607,164](#) **T** [Radiation detecting apparatus](#)
- 2741 [4,605,925](#) **T** [Infra-red telemetry system](#)
- 2742 [4,605,856](#) **T** [Method and device for stabilizing photomultiplier tubes of a radiation image device against drift](#)
- 2743 [4,605,854](#) **T** [Measurement of formation porosity using fast neutron spectroscopy](#)
- 2744 [4,605,847](#) **T** [Method and apparatus for the coded tagging of articles, particularly garments](#)
- 2745 [4,605,846](#) **T** [Optically readable card carrying digital data, and an access control system using said card](#)
- 2746 [4,605,314](#) **T** [Spectral discrimination pyrometer](#)
- 2747 [4,604,522](#) **T** [Method and apparatus for logging a borehole employing dual radiation detectors](#)
- 2748 [4,604,520](#) **T** [Optical near-field scanning microscope](#)
- 2749 [4,603,255](#) **T** [Fire and explosion protection system](#)
- 2750 [4,600,998](#) **T** [System for the non-destructive testing of the internal structure of objects](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2751 4,600,307	T Coherent radiation detecting apparatus
2752 4,599,740	T Radiographic examination system
2753 4,599,690	T Method and circuit for correcting count rate losses of radiation events
2754 4,599,514	T Isotopic radiation method and apparatus for measuring the resinous binder applied to a mat of glass fibers
2755 4,598,203	T Multielement radiation detector
2756 4,598,202	T Nuclear and pressure sensitive line/perimeter detection system
2757 4,597,487	T Method and apparatus for selective scrap metal collections
2758 4,596,933	T Batteryless magneto-driven portable radiac
2759 4,596,927	T Method and apparatus for induced gamma ray logging
2760 4,595,834	T Low parallax error radiation detector
2761 4,595,833	T Multiple internal reflection cell optical system for use in infrared spectrophotometry of liquid and fluidized samples
2762 4,595,353	T Burner with ignition device
2763 4,595,292	T Apparatus for detecting coherent radiation and unequal path interferometers
2764 4,595,014	T Imaging probe and method
2765 4,594,510	T Heat energy measuring system
2766 4,594,508	T Radiation scanning systems
2767 4,594,503	T Apparatus for stabilizing the scanning direction in an image field scanning device

- 2768 [4,593,533](#) **T** [Method and apparatus for detecting and controlling the formation of ice or frost](#)
- 2769 [4,593,456](#) **T** [Pyroelectric thermal detector array](#)
- 2770 [4,593,345](#) **T** [Panoramic optical system with very sharp beam control](#)
- 2771 [4,593,189](#) **T** [Proximity detector for a body scanner](#)
- 2772 [4,592,080](#) **T** [Computer tomograph](#)
- 2773 [4,591,984](#) **T** [Radiation measuring device](#)
- 2774 [4,591,720](#) **T** [Method of measuring radioactivity](#)
- 2775 [4,591,716](#) **T** [Radioactive concentration measuring apparatus](#)
- 2776 [4,590,658](#) **T** [Tube wall thickness measurement](#)
- 2777 [4,590,579](#) **T** [Apparatus and method for digital specific gravity measurement](#)
- 2778 [4,590,410](#) **T** [Object sensing apparatus](#)
- 2779 [4,590,378](#) **T** [Counterbalanced radiation detection device](#)
- 2780 [4,590,373](#) **T** [Device for measurement of content of loose mixtures components](#)
- 2781 [4,590,372](#) **T** [Measuring arrangement for determining the gaseous radioiodine concentration in a carrier gas](#)
- 2782 [4,590,158](#) **T** [Microbial monitor](#)
- 2783 [4,589,070](#) **T** [Airborne wind shear response system](#)
- 2784 [4,588,894](#) **T** [Vacuum tube and a method for manufacturing the same](#)
- 2785 [4,588,254](#) **T** [Method employing optical/mechanical apparatus for scanning two fields of view](#)
- 2786 [4,587,623](#) **T** [Method for recalibrating nuclear density gauges](#)
- 2787 [4,587,543](#) **T** [Method and device for detecting metal ions](#)
- 2788 [4,587,424](#) **T** [Method for investigating the composition of an earth formation traversed by a borehole](#)
- 2789 [4,587,422](#) **T** [Subsurface density testing method](#)
- 2790 [4,584,186](#) **T** [Radiolabelled metallocene derivatives](#)
- 2791 [4,583,597](#) **T** [Fire and explosion detection and suppression system](#)
- 2792 [4,583,240](#) **T** [Data acquisition circuitry for use in computerized tomography system](#)
- 2793 [4,583,187](#) **T** [Method and circuit for stabilizing conversion gain of radiation detectors of a radiation detection system](#)
- 2794 [4,582,809](#) **T** [Apparatus including optical fiber for fluorescence immunoassay](#)
- 2795 [4,582,520](#) **T** [Methods and apparatus for measuring and controlling curing of polymeric materials](#)
- 2796 [4,581,673](#) **T** [Apparatus and method for protection and recovery from latch-up of integrated circuits](#)
- 2797 [4,581,536](#) **T** [Radiation detection tube having spurious radiation shield](#)
- 2798 [4,581,194](#) **T** [Method and system for controlling an accelerator-type neutron system](#)
- 2799 [4,580,292](#) **T** [Communications exchange](#)
- 2800 [4,580,053](#) **T** [Backscatter detection inspection apparatus for tubular goods](#)

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SPEC/"radiation: 4072 patents.
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PAT. NO.	Title
2801 4,580,049	<u>T Probe for locating mineral deposits</u>
2802 4,580,048	<u>T System for measuring the natural gamma radiation of surface and subsurface formations</u>
2803 4,578,959	<u>T Method and apparatus for detecting and controlling the formation of ice or frost</u>
2804 4,578,762	<u>T Self-calibrating carbon dioxide analyzer</u>
2805 4,578,585	<u>T Detector head mounting mechanism</u>
2806 4,578,578	<u>T Method for correcting spectrum shift</u>
2807 4,577,184	<u>T Security system with randomly modulated probe signal</u>
2808 4,577,107	<u>T Detector head mounting apparatus</u>
2809 4,575,810	<u>T Method and circuit for processing pulses by applying the technique of weighted acquisition</u>
2810 4,575,758	<u>T Method of displaying on a viewing screen the output signals from a detector sensitive to radiation</u>
2811 4,575,633	<u>T Pyroelectric infrared radiation detector</u>
2812 4,574,478	<u>T Method and device for demounting in a radiation detector a photomultiplier tube</u>
2813 4,574,387	<u>T Apparatus and method for measuring thickness</u>
2814 4,574,194	<u>T Method and apparatus for monitoring the manufacture of a two-component web</u>
2815 4,574,193	<u>T Method for logging fluid flow rate, water fraction, and/or salinity of water flowing into a well</u>
2816 4,573,796	<u>T Apparatus for eliminating background interference in fluorescence measurements</u>

- 2817 [4,572,953](#) **T** [Infra red photo detector systems](#)
- 2818 [4,571,494](#) **T** [Multi-channel radiation detector array](#)
- 2819 [4,571,080](#) **T** [Michelson interferometer with a photorefractive mirror](#)
- 2820 [4,570,173](#) **T** [High-aspect-ratio hollow diffused regions in a semiconductor body](#)
- 2821 [4,569,817](#) **T** [Miniature fission chamber and signal cable assembly](#)
- 2822 [4,569,589](#) **T** [Lung water computer system](#)
- 2823 [4,568,510](#) **T** [Method and system for uranium exploration](#)
- 2824 [4,567,367](#) **T** [Method for detecting a source of heat, more particularly a forest fire in a watched area, and system for carrying out said method](#)
- 2825 [4,566,809](#) **T** [Infra-red radiation temperature measurement of a moving wire](#)
- 2826 [4,566,808](#) **T** [Scanning radiation detector](#)
- 2827 [4,566,797](#) **T** [Spectrophotometer operating at discrete wavelengths](#)
- 2828 [4,566,791](#) **T** [Fluid sample cell comprising Fresnel sectors](#)
- 2829 [4,566,203](#) **T** [Apparatus and method useful for removing liquid from the outer surface of cylindrical pipette tube or the like](#)
- 2830 [4,566,074](#) **T** [Scintillation camera](#)
- 2831 [4,565,449](#) **T** [Method of and apparatus for determining refractive-index profiles of cylindrical transparent bodies](#)
- 2832 [4,565,224](#) **T** [Apparatus for monitoring weft thread in a weaving machine](#)
- 2833 [4,564,753](#) **T** [Radiation detector](#)
- 2834 [4,563,701](#) **T** [Digital diagnostic imaging system](#)
- 2835 [4,563,583](#) **T** [Scintillation camera](#)
- 2836 [4,562,584](#) **T** [Apparatus for measuring void ratios by using radiation](#)
- 2837 [4,562,567](#) **T** [Apparatus for controlling the write beam in an optical data recording system](#)
- 2838 [4,562,356](#) **T** [Apparatus and method for photoluminescence analysis](#)
- 2839 [4,562,353](#) **T** [Method and device for producing nuclear images](#)
- 2840 [4,562,350](#) **T** [Optical device containing a semiconductor laser](#)
- 2841 [4,561,786](#) **T** [Temperature measuring apparatus](#)
- 2842 [4,560,912](#) **T** [Object sensing apparatus for an automatic door](#)
- 2843 [4,560,876](#) **T** [Detector head mounting apparatus](#)
- 2844 [4,560,875](#) **T** [Infrared absorption gas detector](#)
- 2845 [4,560,286](#) **T** [Optical temperature measurement techniques utilizing phosphors](#)
- 2846 [4,559,695](#) **T** [Method of manufacturing an infrared radiation imaging device](#)
- 2847 [4,559,641](#) **T** [Retractable cassette holder for a radiological and radiographic examination apparatus](#)
- 2848 [4,558,458](#) **T** [Positioning unit for radiation tomography apparatus](#)
- 2849 [4,558,222](#) **T** [Infrared radiation detecting systems](#)
- 2850 [4,556,796](#) **T** [Infrared radiation detector](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2851 4,555,720	T Infra-red radiation detectors and their manufacture
2852 4,555,632	T Method and apparatus for ascertaining the dimensions and positions of film frames on coherent roll films
2853 4,554,571	T Matched photonic detector-charge transfer reader assembly and image forming target using such an assembly
2854 4,554,460	T Photodetector automatic adaptive sensitivity system
2855 4,554,456	T Self-powered gamma responses detector
2856 4,554,448	T Optical elements
2857 4,553,881	T Slurry pump tram control apparatus
2858 4,552,578	T Optical fiber fabrication process comprising determining mode field radius and cut-off wavelength of single mode optical fibers
2859 4,551,298	T Radiation monitoring apparatus
2860 4,550,768	T Compactability measurement method and apparatus for sand casting
2861 4,550,381	T Spectrometer gun
2862 4,549,809	T Method for photometric measurement of light absorption of liquid samples in cuvettes
2863 4,549,307	T X-Ray imaging system having radiation scatter compensation and method
2864 4,547,893	T Continuous wave fan beam tomography system having a best-estimating filter
2865 4,547,673	T Smoke and flame detector
2866 4,547,068	T Optical analytical instrument beam condenser

- 2867 4,546,463 **T** Apparatus for recording and reading information tracks on an optical record carrier with a beam of radiation
- 2868 4,546,257 **T** Devices for measuring ionizing radiations
- 2869 4,546,252 **T** Method for monitoring potassium chloride concentration in drilling fluids
- 2870 4,546,251 **T** Device for monitoring X-ray radiation and method of using same
- 2871 4,545,681 **T** Method and apparatus for controlling measurement in a spectrophotometer
- 2872 4,544,939 **T** Schottky-barrier diode radiant energy detector with extended longer wavelength response
- 2873 4,544,843 **T** Radiation detector with built-in test capability
- 2874 4,544,441 **T** Method of making a bolometric radiation detector
- 2875 4,544,272 **T** Alignment apparatus and method for interferometer spectrometers
- 2876 4,544,234 **T** Low loss optical fiber splicing
- 2877 4,543,665 **T** Speakerphone with wireless infrared microphone
- 2878 4,543,663 **T** Piezoelectric apparatus for positioning optical fibers
- 2879 4,543,485 **T** Scintillator for radiation detection and process for producing the same
- 2880 4,543,478 **T** Detector pulse forming system for nuclear well logging tools
- 2881 4,541,059 **T** Stress distribution measuring instrument
- 2882 4,539,649 **T** Method and apparatus for the gamma transmission analysis of multicomponent mixtures in the presence of coarse grained components
- 2883 4,539,639 **T** Process for obtaining three-dimensional images of an object and its application to the tomography of an organ
- 2884 4,538,915 **T** Web inspection system having a product characteristic signal normalizing network
- 2885 4,538,181 **T** Optical scanner
- 2886 4,538,071 **T** Practical device for the measurement of the absorbed dose versus depth in soft tissues
- 2887 4,537,464 **T** Infrared objective system lens
- 2888 4,536,861 **T** Optical fibre hydrophone
- 2889 4,536,653 **T** Seismic restraint means
- 2890 4,536,414 **T** Superconductive tunnel junction device with enhanced characteristics and method of manufacture
- 2891 4,535,246 **T** Fast neutron radiography system
- 2892 4,535,245 **T** Wavelength-sensitive radiography apparatus
- 2893 4,535,243 **T** X-ray detector for high speed X-ray scanning system
- 2894 4,535,242 **T** Method and a circuit for processing pulses of a pulse train
- 2895 4,535,233 **T** Bootstrap-transimpedance preamplifier for a fiber optic receiver
- 2896 4,534,741 **T** Method for assessing the dielectric state of a high voltage vacuum device using radiation generated by field emission current
- 2897 4,533,489 **T** Formable light reflective compositions
- 2898 4,532,424 **T** Pyroelectric thermal detector array
- 2899 4,532,026 **T** Method to improve circulation control in fluidized systems
- 2900 4,532,025 **T** Method of controlling catalyst regeneration for fluid catalytic cracking to minimize catalyst backflow abrasion

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
2901 4,531,204	T Computerized truck instrumentation system
2902 4,529,881	T Flame detector with test lamp and adjustable field of view
2903 4,529,855	T Microwave radiation detector
2904 4,529,309	T Method for determining the average radius and/or the average length of particles carried by a flowing medium
2905 4,528,851	T Force responsive device
2906 4,528,593	T Visual sensor systems
2907 4,528,507	T Sheet measuring apparatus with two structurally isolated non-contacting surface follower bodies and wireless signal transmission
2908 4,527,896	T Infrared transducer-transmitter for non-contact temperature measurement
2909 4,527,183	T Drilled, diffused radiation detector
2910 4,527,158	T Aircraft collision pilot warning indicating system
2911 4,527,064	T Imaging alpha particle detector
2912 4,526,470	T Stray light measurement and compensation
2913 4,526,034	T Krypton hygrometer
2914 4,526,029	T Particle size analysis
2915 4,525,854	T Radiation scatter apparatus and method
2916 4,523,279	T Apparatus for determining oxygen saturation levels in blood
2917 4,523,095	T Radiation detector with asymmetrical pattern

- 2918 [4,521,798](#) **T** [Infra-red radiation imaging devices and methods for their manufacture](#)
- 2919 [4,521,372](#) **T** [Apparatus and method for monitoring stored material](#)
- 2920 [4,520,262](#) **T** [Photoelectric safety screen with stray source detection](#)
- 2921 [4,518,912](#) **T** [Radiation detector](#)
- 2922 [4,518,860](#) **T** [Compact detector for radon and radon daughter products](#)
- 2923 [4,518,855](#) **T** [Method and apparatus for statically aligning shafts and monitoring shaft alignment](#)
- 2924 [4,517,845](#) **T** [Method and apparatus for determining the flow velocity of a molten, radiation-emitting material](#)
- 2925 [4,517,834](#) **T** [Tire pressure sensing systems](#)
- 2926 [4,517,683](#) **T** [Microprocessor controlled system for decoding serial data into parallel data for execution](#)
- 2927 [4,517,459](#) **T** [Temperature stabilization system for a radiation detector in a well logging tool](#)
- 2928 [4,516,252](#) **T** [Device for imaging layers of a body](#)
- 2929 [4,516,158](#) **T** [Ground reconnaissance](#)
- 2930 [4,516,025](#) **T** [Method and apparatus for controlling scintillation camera](#)
- 2931 [4,516,018](#) **T** [Solar sensing arrangement for use in a uniaxis solar collector tracking system](#)
- 2932 [4,515,165](#) **T** [Apparatus and method for detecting tumors](#)
- 2933 [4,514,086](#) **T** [Apparatus for measuring refractive properties of lenses and other transmissive devices](#)
- 2934 [4,512,036](#) **T** [Piezoelectric apparatus for positioning optical fibers](#)
- 2935 [4,511,783](#) **T** [Method for making electrical contacts to diamond by means of a laser, and diamond provided with contacts according to this optical method](#)
- 2936 [4,511,420](#) **T** [Continuous rod manufacture](#)
- 2937 [4,510,758](#) **T** [Convertible cryostat](#)
- 2938 [4,510,573](#) **T** [Method for X-ray fluorescence spectroscopy](#)
- 2939 [4,510,488](#) **T** [Passive infrared intrusion detector](#)
- 2940 [4,510,391](#) **T** [Gas-discharge position-sensitive ionizing-radiation detector](#)
- 2941 [4,509,342](#) **T** [Infrared receiver having a cooled radiation detector](#)
- 2942 [4,508,461](#) **T** [Distributed fiber optic temperature monitoring apparatus and method](#)
- 2943 [4,508,422](#) **T** [Optical scanning system](#)
- 2944 [4,507,674](#) **T** [Backside illuminated blocked impurity band infrared detector](#)
- 2945 [4,507,556](#) **T** [Apparatus and method for determining pulp stock consistency](#)
- 2946 [4,507,554](#) **T** [Method and apparatus for determining borehole and formation constituents](#)
- 2947 [4,507,553](#) **T** [Method and apparatus for identifying vanadium in earth formations](#)
- 2948 [4,507,552](#) **T** [Method and apparatus for determining flow characteristics within a well](#)
- 2949 [4,507,551](#) **T** [Optical detection system having a detector lens comprising a rear landscape lens](#)
- 2950 [4,506,541](#) **T** [Measurement of bulk density of particulate materials](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
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- 2951 4,506,375 **T** X-Ray calibration system
- 2952 4,504,437 **T** Seismic restraint means for a nuclear radiation detector mounted in a tubular thimble
- 2953 4,503,336 **T** Beam former having variable delays between LED output signals
- 2954 4,503,328 **T** Evaluation of the interaction with radiant energy of substances traversed by a borehole
- 2955 4,502,773 **T** Two zone infrared ranging system
- 2956 4,502,753 **T** Termination device using a directional coupler which compensates for the parasitic radiation from a light source via a compensation signal
- 2957 4,501,989 **T** Radiation detecting arrangement for counting an ionizing radiation
- 2958 4,501,967 **T** Broad band pyroelectric infrared detector
- 2959 4,501,131 **T** Cryogenic cooler for photoconductive cells
- 2960 4,501,010 **T** Dental X-ray diagnostic installation
- 2961 4,500,785 **T** Radiation detector having a multiplicity of individual detecting elements
- 2962 4,500,781 **T** Method and apparatus for determining neutron characteristics of borehole fluids
- 2963 4,500,295 **T** Personal alpha contamination simulator and detector
- 2964 4,500,205 **T** Spectrophotometer
- 2965 4,499,984 **T** Selective scrap metal collection apparatus
- 2966 4,499,952 **T** Fire and explosion detection and suppression system and actuation circuitry therefor
- 2967 4,499,591 **T** Fluoroscopic filtering

- 2968 [4,498,309](#) **T** [Blower control arrangement for air conditioning unit or the like](#)
- 2969 [4,497,373](#) **T** [Fire and explosion detection and suppression](#)
- 2970 [4,497,061](#) **T** [Method and apparatus for radiography comprising calibrating means](#)
- 2971 [4,496,842](#) **T** [Radiation detector](#)
- 2972 [4,496,841](#) **T** [Radiation detector with resonant frequency translator](#)
- 2973 [4,496,837](#) **T** [Pressure reducing device](#)
- 2974 [4,495,636](#) **T** [Multichannel radiography employing scattered radiation](#)
- 2975 [4,495,633](#) **T** [Process and apparatus for the dimensional and non-destructive control of a hollow member](#)
- 2976 [4,495,589](#) **T** [Aircraft ground velocity determination system](#)
- 2977 [4,495,417](#) **T** [Device for the determination of the soot content of an oil sample](#)
- 2978 [4,495,142](#) **T** [Monitoring system for monitoring state of nuclear reactor core](#)
- 2979 [4,494,001](#) **T** [Detection of concealed materials](#)
- 2980 [4,493,999](#) **T** [Method of energy resolved gamma-ray logging](#)
- 2981 [4,492,869](#) **T** [Radiation detector](#)
- 2982 [4,492,865](#) **T** [Borehole influx detector and method](#)
- 2983 [4,492,864](#) **T** [Neutron well logging](#)
- 2984 [4,492,857](#) **T** [Pyroelectric detector and vidicon](#)
- 2985 [4,491,900](#) **T** [Lens and mount for use with electromagnetic wave source](#)
- 2986 [4,491,733](#) **T** [Radiation flux measuring system with dead-time correction](#)
- 2987 [4,491,731](#) **T** [Tube wall thickness measurement](#)
- 2988 [4,491,729](#) **T** [Radiation receiver and method of manufacturing such a receiver](#)
- 2989 [4,491,727](#) **T** [Solar radiation sensor and system including same for measuring solar radiation distribution](#)
- 2990 [4,490,835](#) **T** [X-Ray examination device employing double-slit beam collimation](#)
- 2991 [4,490,832](#) **T** [Technique and apparatus for two-phase systems analysis directly in a flow](#)
- 2992 [4,490,614](#) **T** [Housing for an ionization detector array in a tomographic scanner](#)
- 2993 [4,490,612](#) **T** [Method for the measurement of the properties of a plastic film by means of infra-red radiation](#)
- 2994 [4,489,426](#) **T** [Collimator with adjustable aperture](#)
- 2995 [4,489,425](#) **T** [Means and method for determining residual stress on a polycrystalline sample by X-ray diffraction](#)
- 2996 [4,489,239](#) **T** [Portable remote laser sensor for methane leak detection](#)
- 2997 [4,489,238](#) **T** [Infrared radiation detector](#)
- 2998 [4,488,814](#) **T** [Apparatus for and method of optical absorbance and fluorescent radiation measurement](#)
- 2999 [4,488,165](#) **T** [Extrinsic infrared detector with a charge reset function](#)
- 3000 [4,486,691](#) **T** [Sequential capacitive discharge circuit for flash lamps](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3001 4,486,663	<u>T Dual integrator for a radiation detector</u>
3002 4,485,480	<u>T Radiation image photographing apparatus</u>
3003 4,485,309	<u>T Apparatus for contact-free sensing of a moving coherent mass of material</u>
3004 4,484,075	<u>T Infrared intrusion detector with beam indicators</u>
3005 4,483,199	<u>T Method of measuring solid matter mass flow</u>
3006 4,481,664	<u>T Process for inspecting objects showing patterns with dimensional tolerances and reject criteria varying with the locations of said patterns and apparatus and circuits for carrying out said process</u>
3007 4,481,656	<u>T Medical apparatus</u>
3008 4,481,650	<u>T Installation for producing radiographic layer images</u>
3009 4,481,597	<u>T Borehole spectral analog to digital converter</u>
3010 4,481,419	<u>T Attenuation zone plate</u>
3011 4,481,418	<u>T Fiber optic scanning system for laser/thermal inspection</u>
3012 4,480,918	<u>T Non-contact displacement sensing system for a compliance device</u>
3013 4,480,311	<u>T Digital radiation dosimeter having an optoelectronic transmitter</u>
3014 4,480,186	<u>T Compensated density well logging tool</u>
3015 4,479,059	<u>T Imaging radiation detector with gain</u>
3016 4,477,926	<u>T Process for inspecting and automatically sorting objects showing patterns with constant dimensional tolerances and apparatus for carrying out said process</u>
3017 4,477,728	<u>T Radiation detector</u>

- 3018 [4,476,563](#) **T** [Semiconductor laser having at least two radiation beams, and method of manufacturing same](#)
- 3019 [4,476,390](#) **T** [Radiation detector having radiation source position detecting means](#)
- 3020 [4,476,384](#) **T** [Method of and system for determining a spectrum of radiation characteristics with full counting-loss compensation](#)
- 3021 [4,475,816](#) **T** [Method for determining in situ the absorption coefficient of particulate media using pulsed laser technique](#)
- 3022 [4,475,224](#) **T** [Dental x-ray diagnostic installation](#)
- 3023 [4,475,080](#) **T** [Microwave moisture measurement of moving particulate layer after thickness leveling](#)
- 3024 [4,474,036](#) **T** [Infra-red radiation detectors](#)
- 3025 [4,473,735](#) **T** [Process of deburring a mechanical piece](#)
- 3026 [4,472,823](#) **T** [Computed tomography apparatus with detector sensitivity correction](#)
- 3027 [4,469,943](#) **T** [Pyroelectric detector](#)
- 3028 [4,468,727](#) **T** [Integrated cellular array parallel processor](#)
- 3029 [4,468,559](#) **T** [Determining valve position](#)
- 3030 [4,467,768](#) **T** [Electronic fuel injection device for an internal combustion engine](#)
- 3031 [4,467,251](#) **T** [Object sensing apparatus](#)
- 3032 [4,466,748](#) **T** [Thermal imaging apparatus](#)
- 3033 [4,466,113](#) **T** [X-Ray examination device having a high local resolution](#)
- 3034 [4,466,067](#) **T** [Multi-detector intensity interferometer and method for processing incoherent radiation signals](#)
- 3035 [4,465,540](#) **T** [Method of manufacture of laminate radiation collimator](#)
- 3036 [4,464,777](#) **T** [Radiography apparatus](#)
- 3037 [4,464,574](#) **T** [Sampling devices for detecting particulate contaminants](#)
- 3038 [4,464,569](#) **T** [Method and apparatus for spectroscopic analysis of a geological formation](#)
- 3039 [4,462,698](#) **T** [Noncontact temperature sensing method and apparatus for ladle preheating](#)
- 3040 [4,461,952](#) **T** [Portable computing device for measuring radiations](#)
- 3041 [4,460,988](#) **T** [Data accessing system for optical disk mass memory](#)
- 3042 [4,460,830](#) **T** [Portable radiation measuring device](#)
- 3043 [4,460,829](#) **T** [Infrared intrusion detector with response indicator light](#)
- 3044 [4,459,484](#) **T** [Radiation detector for a flame alarm](#)
- 3045 [4,458,735](#) **T** [Dispensing arrangement for a beverage such as a milkshake](#)
- 3046 [4,458,688](#) **T** [Method and apparatus for cardiac nuclear imaging](#)
- 3047 [4,456,823](#) **T** [Mixed gamma emitting gas standard and method](#)
- 3048 [4,456,487](#) **T** [Method for cleaning and annealing a thermoluminescent radiation detector crystal](#)
- 3049 [4,456,390](#) **T** [Noncontact temperature measuring device](#)
- 3050 [4,456,327](#) **T** [Extensive field camera](#)

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SPEC/"radiation: 4072 patents.

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PAT. NO.	Title
3051 4,455,669	<u>T X-Ray diagnostic installation comprising means for the formation of a transparency signal</u>
3052 4,455,488	<u>T Radiation detector</u>
3053 4,454,606	<u>T Reconfigurable x-ray AEC compensation</u>
3054 4,454,587	<u>T Method and circuit arrangement for discriminating between pulses generated by alpha and/or beta radiators</u>
3055 4,454,423	<u>T Circuit arrangement for a radiation detector</u>
3056 4,454,422	<u>T Radiation detector assembly for generating a two-dimensional image</u>
3057 4,454,420	<u>T Neutron-inelastic gamma radiation well logging method and apparatus with background radiation accounted for</u>
3058 4,453,218	<u>T Signal filter method and apparatus</u>
3059 4,453,161	<u>T Switch activating system and method</u>
3060 4,453,075	<u>T Method for localizing a region in the human body, in particular venous thrombi, by the uptake of a radioactive substance, particularly .sup.125 I -</u>
3061 4,452,902	<u>T Method and equipment for the measurement of properties of a liquid</u>
3062 4,451,735	<u>T Cryogenic radiation detector with high-density conductor array</u>
3063 4,451,734	<u>T Infrared intrusion sensor with selectable radiation patterns</u>
3064 4,451,733	<u>T Infrared intrusion detector with optical pattern locators</u>
3065 4,450,356	<u>T Frequency-mixed CO.sub.2 laser radar for remote detection of gases in the atmosphere</u>

- 3066 [4,450,355](#) **T** [Electron microscope comprising an X-ray detector](#)
- 3067 [4,449,568](#) **T** [Continuous casting controller](#)
- 3068 [4,448,547](#) **T** [Optical temperature measurement technique utilizing phosphors](#)
- 3069 [4,448,529](#) **T** [Spectral analysis of a beam of radiation](#)
- 3070 [4,446,570](#) **T** [Collimator for a radiation detector and method of making same](#)
- 3071 [4,445,615](#) **T** [Sorting system calibration](#)
- 3072 [4,445,036](#) **T** [Solid state fast-neutron spectrometer/dosimeter and detector therefor](#)
- 3073 [4,445,035](#) **T** [Emission computed tomography having radial position control of radiation detector](#)
- 3074 [4,444,516](#) **T** [Infrared temperature probe for high pressure use](#)
- 3075 [4,442,844](#) **T** [Method and apparatus for making physiological measurements](#)
- 3076 [4,442,496](#) **T** [Radiation energy measurement apparatus](#)
- 3077 [4,442,489](#) **T** [Device for computed tomography](#)
- 3078 [4,442,360](#) **T** [Radiation detector](#)
- 3079 [4,442,357](#) **T** [Differential radiation detection apparatus](#)
- 3080 [4,441,023](#) **T** [High output differential pyroelectric sensor](#)
- 3081 [4,441,022](#) **T** [Coating thickness measuring device](#)
- 3082 [4,440,596](#) **T** [Control of diameter of fiber insulation on conductors](#)
- 3083 [4,439,675](#) **T** [Moisture and density gauge](#)
- 3084 [4,438,335](#) **T** [Detector head mounting apparatus](#)
- 3085 [4,437,188](#) **T** [X-Ray emitting assembly comprising a flange for assembling a sheath assembly and a beam limiting device](#)
- 3086 [4,437,161](#) **T** [Medical imaging apparatus](#)
- 3087 [4,437,003](#) **T** [Differential pyroelectric sensor with static discharge](#)
- 3088 [4,436,991](#) **T** [Badge reader using infrared light](#)
- 3089 [4,435,644](#) **T** [Radioactive effluent gas monitoring apparatus](#)
- 3090 [4,435,643](#) **T** [Gammanetric thickness measuring apparatus](#)
- 3091 [4,434,370](#) **T** [Self-powered radiation detector with improved emitter](#)
- 3092 [4,434,365](#) **T** [Radiometric methods and means](#)
- 3093 [4,433,328](#) **T** [Motion sensing energy controller](#)
- 3094 [4,433,242](#) **T** [ESR Hollows molten metal/slag interface detection](#)
- 3095 [4,433,230](#) **T** [Method of manufacturing a vacuum vessel provided with a radiation-permeable window](#)
- 3096 [4,431,322](#) **T** [Multiple path recording means](#)
- 3097 [4,431,307](#) **T** [Set of cuvettes](#)
- 3098 [4,431,306](#) **T** [Method and apparatus for precision control of radiometer](#)
- 3099 [4,430,790](#) **T** [Method of making a Josephson junction](#)
- 3100 [4,430,749](#) **T** [Medical imaging apparatus and method for furnishing difference images](#)

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SPEC/"radiation: 4072 patents.

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3101 4,429,999	T Method for calorimetric absorption spectroscopy and device for working the method
3102 4,429,409	T Portable apparatus for analyzing metals by X-ray fluorescence
3103 4,428,050	T Tanning aid
3104 4,427,889	T Method and apparatus for molecular spectroscopy, particularly for the determination of products of metabolism
3105 4,426,640	T Laser scanning apparatus
3106 4,426,352	T Composite detector
3107 4,426,214	T Laminated filters
3108 4,425,505	T Dual head measuring techniques for radiation gaging of reinforcing bar
3109 4,424,445	T Portable coating thickness measuring device
3110 4,423,522	T Device for the imaging of body layers by means of monoenergetic radiation
3111 4,423,329	T Gamma radiation detector probe with a halogen-quenched Geiger-Muller tube, compensated for dead time
3112 4,423,326	T Fire or explosion detection
3113 4,421,985	T Dark field infrared telescope
3114 4,420,690	T Spectrometric microsampling gas cells
3115 4,420,689	T Multi-anode deep well radiation detector
3116 4,420,444	T Process for forming phosphor powder layer
3117 4,419,763	T Variable slanted channel collimator

- 3118 [4,419,579](#) **T** [Dead time compensation circuit](#)
- 3119 [4,419,577](#) **T** [Test pattern device for radiation detector and method of manufacture](#)
- 3120 [4,418,452](#) **T** [X-Ray detector](#)
- 3121 [4,418,335](#) **T** [Infrared intrusion detector with pyroelectric sensor and charge amplifier](#)
- 3122 [4,417,817](#) **T** [Volumetric measurement of particles](#)
- 3123 [4,417,143](#) **T** [Apparatus for driving a radiation detector](#)
- 3124 [4,416,784](#) **T** [Filling composition for use in liquid chromatography](#)
- 3125 [4,416,054](#) **T** [Method of batch-fabricating flip-chip bonded dual integrated circuit arrays](#)
- 3126 [4,415,806](#) **T** [Radiation detector for a flame alarm](#)
- 3127 [4,415,264](#) **T** [Spectrophotometer gas control system](#)
- 3128 [4,415,237](#) **T** [Radiation dosimeter](#)
- 3129 [4,414,542](#) **T** [Two channel comparison-type fire or explosion detecting system](#)
- 3130 [4,413,911](#) **T** [Gas analyzer with fluid curtain](#)
- 3131 [4,413,905](#) **T** [Laser range meter](#)
- 3132 [4,413,184](#) **T** [Optical fiber radiation detector and real-time dosimeter](#)
- 3133 [4,412,174](#) **T** [Monitoring of corrosion](#)
- 3134 [4,411,732](#) **T** [Method of manufacturing a detector device](#)
- 3135 [4,411,521](#) **T** [Optoelectric detection device especially for laser radiation](#)
- 3136 [4,411,011](#) **T** [Radiography](#)
- 3137 [4,409,488](#) **T** [Radioactive material dose computer](#)
- 3138 [4,409,485](#) **T** [Radiation detector and method of opaquing the mica window](#)
- 3139 [4,409,480](#) **T** [Method and system for the testing and calibration of radioactive well logging tools](#)
- 3140 [4,409,475](#) **T** [Spatial frequency filter](#)
- 3141 [4,409,042](#) **T** [Method and apparatus for measuring the temperature of moving elongated articles and application thereof](#)
- 3142 [4,408,903](#) **T** [Method of and apparatus for radiation pyrometric temperature measurement of a continuous cast metal bar](#)
- 3143 [4,408,295](#) **T** [Optical inspector for slat-type container filling machine](#)
- 3144 [4,408,164](#) **T** [Compensation circuit for radiation detectors](#)
- 3145 [4,407,008](#) **T** [Method and apparatus for light-induced scanning-microscope display of specimen parameters and of their distribution](#)
- 3146 [4,405,234](#) **T** [Radiation detection apparatus having refractive light checking feature](#)
- 3147 [4,404,973](#) **T** [Heart muscle evaluation method and apparatus](#)
- 3148 [4,403,826](#) **T** [Ultraviolet radiation detector](#)
- 3149 [4,403,148](#) **T** [Electro-optical scanning and display system](#)
- 3150 [4,403,146](#) **T** [Evaluation of the interaction with radiant energy of substances traversed by a bore hole](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3151 4,402,607	T Automatic detector for microscopic dust on large-area, optically unpolished surfaces
3152 4,402,391	T Selective scrap metal collection apparatus
3153 4,401,108	T Radioactive material loading, calibration and injection systems
3154 4,400,620	T Photon emission tomographic apparatus
3155 4,399,464	T Signal processor for an array of CID radiation detector elements
3156 4,398,722	T Laser beam target
3157 4,398,302	T X-Ray diagnostic system comprising a radiographic unit with an x-ray tube which can emit a fan-shaped radiation beam
3158 4,398,272	T Computerized truck instrumentation system
3159 4,398,251	T Radiography
3160 4,398,092	T Shaped detector
3161 4,396,839	T Method of fabricating a self-powered radiation detector
3162 4,395,632	T Cuvette for optical gas-analysis apparatus
3163 4,394,738	T Method of and device for determining the distribution of radiation absorption in a slice of a body
3164 4,394,676	T Photovoltaic radiation detector element
3165 4,394,574	T Methods and apparatus for constituent analysis of earth formations
3166 4,394,571	T Optically enhanced Schottky barrier IR detector
3167 4,393,864	T Syringe shields and methods for using same

- 3168 [4,392,236](#) **T** [System and method of migratory animal identification by fluorescence spectroscopy of element coded implanted tags, and tags used therein](#)
- 3169 [4,392,108](#) **T** [Broadband radiation detector for microwave and lower frequencies](#)
- 3170 [4,392,057](#) **T** [Position-sensitive radiation detector](#)
- 3171 [4,392,056](#) **T** [Control marking detector](#)
- 3172 [4,391,522](#) **T** [Test apparatus for determining resistance to light and weather influences](#)
- 3173 [4,390,783](#) **T** [Spectroscopic analysis with background compensation](#)
- 3174 [4,389,574](#) **T** [Method and apparatus for detecting a break in a plurality of glass fibers](#)
- 3175 [4,389,570](#) **T** [Wide range radiation monitoring apparatus](#)
- 3176 [4,389,569](#) **T** [Emission computed tomograph](#)
- 3177 [4,388,530](#) **T** [Process and apparatus for the continuous measurement of element contents](#)
- 3178 [4,387,966](#) **T** [Wide bandwidth optical modal deformation sensor](#)
- 3179 [4,385,833](#) **T** [Apparatus for reception and radiation of electromagnetic energy in predetermined fields of view](#)
- 3180 [RE31,248](#) **T** [Electro-mechanical transducer](#)
- 3181 [4,383,269](#) **T** [Graded bandgap photodetector](#)
- 3182 [4,382,646](#) **T** [Method for removing gases caused by out-gassing in a vacuum vessel](#)
- 3183 [4,381,652](#) **T** [Demand flow cryostat](#)
- 3184 [4,381,451](#) **T** [Core self-powered radiation detector for determining thermal and epithermal flux](#)
- 3185 [4,381,449](#) **T** [Neutron-inelastic gamma radiation well logging method and apparatus with background radiation accounted for](#)
- 3186 [4,380,818](#) **T** [X-Ray diagnostic system comprising a radiography unit with an X-ray tube which emits a fan-shaped radiation beam](#)
- 3187 [4,380,817](#) **T** [Method for examining a body with penetrating radiation](#)
- 3188 [4,380,701](#) **T** [Nuclear well logging with neutron source and separate spaced radiation detectors to determine silicon/oxygen ratio](#)
- 3189 [4,379,461](#) **T** [Thermographic apparatus](#)
- 3190 [4,379,329](#) **T** [Radiology](#)
- 3191 [4,379,229](#) **T** [Measuring of gamma-ray energy due to thermal neutron capture of copper and nickel](#)
- 3192 [4,379,228](#) **T** [Neutron-neutron-logging](#)
- 3193 [4,378,701](#) **T** [Apparatus and method for indicating stress in an object](#)
- 3194 [4,377,869](#) **T** [Procedure for measuring coating rates](#)
- 3195 [4,375,761](#) **T** [Monitoring internal combustion engines](#)
- 3196 [4,375,034](#) **T** [Passive infrared intrusion detection system](#)
- 3197 [4,373,357](#) **T** [Cryogenic cooling apparatus](#)
- 3198 [4,373,136](#) **T** [Fire and explosion detection](#)
- 3199 [4,372,690](#) **T** [Thermal radiation measuring arrangement](#)
- 3200 [4,372,172](#) **T** [Process for measuring the tightness of endless driving means during operation](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
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- 3201 [4,371,977](#) **T** [Method for detecting solidification in a mixed phase container](#)
- 3202 [4,371,624](#) **T** [Apparatus and testing reactions](#)
- 3203 [4,371,492](#) **T** [Method of manufacturing electrode supporting base plate for radiation detector](#)
- 3204 [4,369,458](#) **T** [Self-aligned, flip-chip focal plane array configuration](#)
- 3205 [4,369,369](#) **T** [X Or gamma radiation detector, particularly for radiology and a radiological apparatus comprising such a detector](#)
- 3206 [4,367,042](#) **T** [Spectroanalytical system](#)
- 3207 [4,366,574](#) **T** [Shadowgraphic slit scanner with video display](#)
- 3208 [4,366,494](#) **T** [Josephson junction and a method of making the same](#)
- 3209 [4,365,896](#) **T** [Optical attenuation monitor system and method](#)
- 3210 [4,365,719](#) **T** [Radiometric ore sorting method and apparatus](#)
- 3211 [4,365,339](#) **T** [Tomographic apparatus and method for reconstructing planar slices from non-absorbed and non-scattered radiation](#)
- 3212 [4,365,155](#) **T** [Scintillator with ZnWO.sub.4 single crystal](#)
- 3213 [4,363,972](#) **T** [Wide range noble gas radiation monitor](#)
- 3214 [4,363,965](#) **T** [Detection and identification method employing mossbauer isotopes](#)
- 3215 [4,363,116](#) **T** [Method, apparatus and record carrier body for optically writing information](#)
- 3216 [4,362,939](#) **T** [Method and apparatus for measurement of moisture](#)
- 3217 [4,359,639](#) **T** [Method of and apparatus for determining the nature of transported material](#)

- 3218 [4,359,622](#) **T** [Controller for spot welding](#)
- 3219 [4,358,675](#) **T** [Low contrast default for auto focus system](#)
- 3220 [RE31,074](#) **T** [Well surveying instrument and method](#)
- 3221 [4,357,708](#) **T** [X-ray diagnostic system comprising tomographic apparatus](#)
- 3222 [4,357,534](#) **T** [Fire and explosion detection](#)
- 3223 [4,356,874](#) **T** [Weight controller for canned food and the like](#)
- 3224 [4,355,456](#) **T** [Process of fabricating a Schottky barrier photovoltaic detector](#)
- 3225 [4,355,271](#) **T** [Control apparatus](#)
- 3226 [4,354,189](#) **T** [Switch and lock activating system and method](#)
- 3227 [4,353,863](#) **T** [Method for localizing a leaking rod in a nuclear fuel assembly](#)
- 3228 [4,352,098](#) **T** [Surveillance systems](#)
- 3229 [4,352,020](#) **T** [Method and apparatus for examining a subject](#)
- 3230 [4,351,437](#) **T** [Method and apparatus for examining objects](#)
- 3231 [4,350,889](#) **T** [X-Ray fluorescent analysis with matrix compensation](#)
- 3232 [4,350,885](#) **T** [Battery hydrometer with analog output](#)
- 3233 [4,348,611](#) **T** [Ferroelectric or pyroelectric sensor utilizing a sodium nitrite layer](#)
- 3234 [4,348,588](#) **T** [Method for compensating measuring values when measuring the radiation from a number of radioactive samples in an automatic radiation detecting instrument](#)
- 3235 [4,348,587](#) **T** [Fiber optic transducer for measuring current or magnetic field](#)
- 3236 [4,347,526](#) **T** [Radiation detectors](#)
- 3237 [4,346,291](#) **T** [Thermally isolated monolithic semiconductor die](#)
- 3238 [4,345,962](#) **T** [Control in application of pulp insulation to electrical conductors](#)
- 3239 [4,345,155](#) **T** [Radiation detector for use in X-ray tomography](#)
- 3240 [4,343,551](#) **T** [Apparatus for counting and classifying particles](#)
- 3241 [4,343,182](#) **T** [Radiation heat loss detector](#)
- 3242 [4,342,916](#) **T** [Method of and apparatus for tomographic examination of structures by X-ray or gamma ray scanning](#)
- 3243 [4,342,913](#) **T** [Portable radiation dosimeter](#)
- 3244 [4,342,912](#) **T** [Apparatus for detecting air disturbances created by low level wind shear](#)
- 3245 [4,342,032](#) **T** [Device for the detection of and defense against masked helicopters](#)
- 3246 [4,341,937](#) **T** [Microwave oven cooking progress indicator](#)
- 3247 [4,338,633](#) **T** [Frame integrator for CID imaging system](#)
- 3248 [4,338,523](#) **T** [Low cost disposable radiation detecting apparatus](#)
- 3249 [4,338,521](#) **T** [Modular radiation detector array and module](#)
- 3250 [4,338,026](#) **T** [Apparatus for determining properties of matter](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
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- | | |
|----------------|--|
| 3251 4,336,532 | T Integrated nuclear radiation detector and monitor |
| 3252 4,336,452 | T Radiation detector circuits which inhibit depoling of the detector |
| 3253 4,335,611 | T Accelerometer |
| 3254 4,335,308 | T Inspection of underwater structures |
| 3255 4,333,008 | T Polarization coded doublet laser detection system |
| 3256 4,331,241 | T Apparatus for thickness sorting of sheet materials |
| 3257 4,330,835 | T Method and apparatus for determining the internal dimension of hollow bodies |
| 3258 4,328,389 | T Inherent spectrum-splitting photovoltaic concentrator system |
| 3259 4,327,073 | T Automated method for quantitative analysis of biological fluids |
| 3260 4,326,940 | T Automatic analyzer and control system for electroplating baths |
| 3261 4,326,802 | T Dual monochromator type of spectroanalysis system |
| 3262 4,326,129 | T Evaluation of the interaction with radiant energy of substances traversed by a bore hole |
| 3263 4,325,146 | T Non-synchronous object identification system |
| 3264 4,325,135 | T Optical record carrier and apparatus for reading it |
| 3265 4,323,777 | T Hydrocarbon gas analyzer |
| 3266 4,323,311 | T Apparatus and method for detecting holes in sheet material |
| 3267 4,322,804 | T Storage conveyor operation system and surveillance system |
| 3268 4,322,618 | T Diffracted beam monochromator |

- 3269 [4,321,594](#) **T** [Passive infrared detector](#)
- 3270 [4,321,471](#) **T** [X-Ray target monitor](#)
- 3271 [4,321,469](#) **T** [Nucleonic gauge for determining lubricant level in a joint and method](#)
- 3272 [4,319,901](#) **T** [Electro-optic fiber monitor](#)
- 3273 [4,319,856](#) **T** [Microwave method and apparatus for reprocessing pavements](#)
- 3274 [4,319,258](#) **T** [Schottky barrier photovoltaic detector](#)
- 3275 [4,319,229](#) **T** [Alarm system having plural diverse detection means](#)
- 3276 [4,318,217](#) **T** [Method of manufacturing an infra-red detector device](#)
- 3277 [4,317,998](#) **T** [Infra-red line-scanning target detectors](#)
- 3278 [4,317,997](#) **T** [Positioning fixture for measuring instruments](#)
- 3279 [4,317,993](#) **T** [Methods and apparatus for constituent analysis of earth formations](#)
- 3280 [4,317,992](#) **T** [Object detecting apparatus](#)
- 3281 [4,317,037](#) **T** [Radiation detection apparatus](#)
- 3282 [4,317,035](#) **T** [Gold monitoring procedure](#)
- 3283 [4,316,103](#) **T** [Circuit for coupling signals from a sensor](#)
- 3284 [4,316,088](#) **T** [Process and device for measuring by infrared thermometry the temperature of a wire, bar or tube, or a metal](#)
- 3285 [4,316,086](#) **T** [Method and apparatus for measuring neutron characteristics of material surrounding a borehole](#)
- 3286 [4,315,150](#) **T** [Targeted infrared thermometer](#)
- 3287 [4,315,146](#) **T** [Process and apparatus for scatter reduction in radiography](#)
- 3288 [4,314,761](#) **T** [Arrangement for locating radiating sources](#)
- 3289 [4,313,257](#) **T** [Annealing methods for improving performance of a radiation sensor](#)
- 3290 [4,312,855](#) **T** [Compositions containing aminopolyureylene resin](#)
- 3291 [4,312,480](#) **T** [Radiation shielding and gas diffusion apparatus](#)
- 3292 [4,311,912](#) **T** [Neutron accelerator tube having improved target section](#)
- 3293 [4,311,907](#) **T** [Radiation detector having refractive index matching means](#)
- 3294 [4,311,048](#) **T** [Liquid level sensing means](#)
- 3295 [4,310,887](#) **T** [Verification and calibration of well logs and reconstruction of logs](#)
- 3296 [4,310,765](#) **T** [Neutron accelerator tube having improved ionization section](#)
- 3297 [4,309,610](#) **T** [Method of determining the location, orientation and pattern of reinforcing members in reinforced concrete](#)
- 3298 [4,309,606](#) **T** [Measuring plate thickness](#)
- 3299 [4,308,105](#) **T** [Method of and apparatus for decontamination of radioactive waste water](#)
- 3300 [4,307,960](#) **T** [Spectrophotometer](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3301 4,307,937	T Optical modulators
3302 4,307,713	T Syringe shields and methods for using same
3303 4,305,663	T Spectrophotometer
3304 4,304,995	T Method and apparatus for measuring the wall thickness in a plastic article
3305 4,304,994	T Method of and apparatus for monitoring radioactivity concentration of gas
3306 4,303,860	T High resolution radiation detector
3307 4,301,370	T Flowthrough chamber for nuclear radiation detection fluids
3308 4,301,368	T Ionizing radiation detector adapted for use with tomography systems
3309 4,301,366	T Chatter detection in thickness measuring gauges and the like
3310 4,301,365	T Apparatus for contactless measurement of the thickness of a sheet material
3311 4,300,062	T Offset compensation circuit for charge-coupled devices
3312 4,300,049	T Dynamically standardized radiant energy method and apparatus for plural channel gain independent material property measurement
3313 4,299,485	T Spectrophotometer
3314 4,299,393	T Area radiation target
3315 4,298,839	T Programmable AC electric energy meter having radiation responsive external data interface
3316 4,298,799	T Radiography
3317 4,297,684	T Fiber optic intruder alarm system

- 3318 [4,297,579](#) **T** [Bi-frequency infrared spectrometer](#)
- 3319 [4,297,577](#) **T** [Radiation detection of gas compositions](#)
- 3320 [4,296,325](#) **T** [Scanning mirror position system](#)
- 3321 [4,296,324](#) **T** [Dual spectrum infrared fire sensor](#)
- 3322 [4,296,321](#) **T** [Bit pressure gauge for well drilling](#)
- 3323 [4,296,320](#) **T** [Automatic gain control for radiation analyzer](#)
- 3324 [4,295,148](#) **T** [Method of fabrication of electroluminescent and photodetecting diodes](#)
- 3325 [4,295,047](#) **T** [Emission computed tomograph](#)
- 3326 [4,294,259](#) **T** [Method and apparatus for characterizing blood flow through the heart](#)
- 3327 [4,293,767](#) **T** [Apparatus for measuring the thickness of thin layers](#)
- 3328 [4,293,379](#) **T** [Neutron activation analysis method and apparatus for determining sodium and sodium compounds in liquid samples](#)
- 3329 [4,292,592](#) **T** [Pulsed power supply system](#)
- 3330 [4,292,539](#) **T** [Compensated count-rate circuit for radiation survey meter](#)
- 3331 [4,292,538](#) **T** [Shaped detector](#)
- 3332 [4,292,536](#) **T** [Radiation method and assembly for assessing web parameters](#)
- 3333 [4,291,547](#) **T** [Screw compressor-expander cryogenic system](#)
- 3334 [4,290,908](#) **T** [Method and apparatus for treatment of radioactive wastes](#)
- 3335 [4,289,020](#) **T** [Microwave-gamma ray water in crude monitor](#)
- 3336 [4,288,697](#) **T** [Laminate radiation collimator](#)
- 3337 [4,288,695](#) **T** [Computerized tomographic scanner with shaped radiation filter](#)
- 3338 [4,288,291](#) **T** [Radiation detector for use in nuclear reactors](#)
- 3339 [4,288,062](#) **T** [Apparatus for control and monitoring of the carbon potential of an atmosphere in a heat-processing furnace](#)
- 3340 [4,287,418](#) **T** [Method for measuring the spectral distribution of electromagnetic radiation intensity and spectrometer of millimetric and far-infrared ranges for effecting same](#)
- 3341 [4,286,155](#) **T** [Radioactive gas monitor](#)
- 3342 [4,286,149](#) **T** [Apparatus and method for detection of overlapping objects](#)
- 3343 [4,284,896](#) **T** [Computerized tomographic reconstruction method and system utilizing reflection](#)
- 3344 [4,283,934](#) **T** [Pyrometric temperature measurements in flameless atomic absorption spectroscopy](#)
- 3345 [4,283,817](#) **T** [Method for bonding electrode plates in a multicell x-ray detector](#)
- 3346 [4,283,141](#) **T** [Sample cell and stirrer for spectrophotometry](#)
- 3347 [4,282,440](#) **T** [Neutron accelerator tube having improved ionization section](#)
- 3348 [4,281,696](#) **T** [Automatic sawmill method and apparatus](#)
- 3349 [4,281,325](#) **T** [Positive feedback meter pulse initiator](#)
- 3350 [4,281,253](#) **T** [Applications of dual function electro-optic transducer in optical signal transmission](#)

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SPEC/"radiation: 4072 patents.

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3351 4,280,178	T Computerized tomographic reconstruction method utilizing reflection
3352 4,278,889	T Current amplifier with automatic drift correction for tomographic scanners
3353 4,278,887	T Fluid sample cell
3354 4,278,886	T In-line assay monitor for uranium hexafluoride
3355 4,278,885	T Apparatus for measuring the concentrations of elements in a material by the capture gamma method
3356 4,277,686	T Device for determining internal body structures by means of scattered radiation
3357 4,277,685	T Adjustable collimator
3358 4,277,681	T Low radiation densitometer
3359 4,277,438	T Method and apparatus for measuring the amount of carbon and other organics in an aqueous solution
3360 4,276,480	T Sensor position independent material property determination using radiant energy
3361 4,275,949	T Method of and means for scanning images
3362 4,275,444	T Arrangements for constructing representations of parts of bodies
3363 4,274,609	T Target and missile angle tracking method and system for guiding missiles on to targets
3364 4,274,226	T Detection of object in path of moving gate
3365 4,274,140	T Arrangements for constructing representations of parts of bodies
3366 4,274,001	T Scanning type scintillation camera
3367 4,272,680	T Modular array radiation detector

- 3368 [4,272,677](#) **T** [Method and apparatus for the automatic stabilization of drift in radiation measurements](#)
- 3369 [4,271,362](#) **T** [Method and apparatus for detecting a distant object using gamma radiation](#)
- 3370 [4,270,613](#) **T** [Fire and explosion detection and suppression system](#)
- 3371 [4,270,123](#) **T** [Detector for indicating a fire or detector malfunction](#)
- 3372 [4,270,052](#) **T** [Radioactive gas dose computer](#)
- 3373 [4,270,051](#) **T** [Device for gauging thickness of refractory lining](#)
- 3374 [4,270,045](#) **T** [Apparatus for reading an optical radiation-reflecting information carrier for controlling focus](#)
- 3375 [4,269,660](#) **T** [Device for transporting radioactive material](#)
- 3376 [4,268,753](#) **T** [Level detection device for enclosed tanks](#)
- 3377 [4,267,454](#) **T** [Self-powered radiation detector with conductive emitter support](#)
- 3378 [4,267,453](#) **T** [Radiation detection device having reflective cover layers of BaSO.sub.4 incorporated in acrylic varnish](#)
- 3379 [4,267,446](#) **T** [Dual scintillation detector for determining grade of uranium ore](#)
- 3380 [4,266,549](#) **T** [Laser scalpel](#)
- 3381 [4,266,142](#) **T** [Fluid system and method](#)
- 3382 [4,266,136](#) **T** [Tomography wherein signal profiles derived from an out-fanning beam of penetrating radiation can be reconstructed corresponding with parallel incident rays](#)
- 3383 [4,266,126](#) **T** [Pulsed radiation decay logging](#)
- 3384 [4,265,541](#) **T** [Interferometric laser gyrometer](#)
- 3385 [4,264,812](#) **T** [Method for determining the absorption cross section of small fluid samples](#)
- 3386 [4,264,375](#) **T** [Detector for high intensity laser radiation](#)
- 3387 [4,264,211](#) **T** [Light sensor](#)
- 3388 [4,263,620](#) **T** [Picture pickup target and reading device assembly](#)
- 3389 [4,263,511](#) **T** [Turbidity meter](#)
- 3390 [4,262,198](#) **T** [Broadband optical radiation detector](#)
- 3391 [4,260,894](#) **T** [Optimum dose tomography scanning system](#)
- 3392 [4,260,892](#) **T** [Geiger-Mueller radiation detector with means for detecting and indicating the existence of radiation overload](#)
- 3393 [4,260,891](#) **T** [Radiation detectors](#)
- 3394 [4,259,584](#) **T** [Apparatus for transmitting signals](#)
- 3395 [4,259,583](#) **T** [Image region selector for a scanning X-ray system](#)
- 3396 [4,259,582](#) **T** [Plural image signal system for scanning x-ray apparatus](#)
- 3397 [4,259,575](#) **T** [Directional gamma detector](#)
- 3398 [4,259,365](#) **T** [Method for creating a ferroelectric or pyroelectric body](#)
- 3399 [4,258,255](#) **T** [Infrared intrusion detection system](#)
- 3400 [4,257,102](#) **T** [Apparatus for axial transverse tomography](#)

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SPEC/"radiation: 4072 patents.

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO. Title

- 3401 4,257,061 **T** Thermally isolated monolithic semiconductor die
- 3402 4,256,405 **T** Scanning spectrometer
- 3403 4,255,897 **T** Method and apparatus for the improvement of storage of biochemical energy in plants
- 3404 4,254,338 **T** Determination of temperature distributions on awkwardly located or low-access surfaces
- 3405 4,254,337 **T** Infrared interference type film thickness measuring method and instrument therefor
- 3406 4,253,249 **T** Weapon training systems
- 3407 4,253,027 **T** Tomographic scanner
- 3408 4,252,250 **T** Multiple-beam optical sensing system for an article vendor
- 3409 4,251,810 **T** Apparatus for and methods of remotely monitoring outputs of Geiger-Mueller tubes
- 3410 4,251,744 **T** Pulse conversion circuit
- 3411 4,250,384 **T** Radiant energy systems, memories and thermal imaging methods and apparatus
- 3412 4,250,103 **T** Radiographic apparatus and method for monitoring film exposure time
- 3413 4,249,244 **T** Electro-optical system and method and apparatus for providing automatically-compensating, traceable calibration and zeroing for light scattering devices
- 3414 4,247,768 **T** Vehicle velocity related measuring systems
- 115 4,246,484 **T** Medical radiographic apparatus
- 16 4,245,910 **T** Apparatus for detecting particles suspended in a gas
- 7 4,245,646 **T** Nuclear cardiology apparatus and method

- 3418 [4,245,479](#) **T** [Temperature stabilization method](#)
- 3419 [4,245,217](#) **T** [Passive infrared alarm device](#)
- 3420 [4,245,157](#) **T** [Electron irradiation method for improving performance of a radiation sensor](#)
- 3421 [4,243,885](#) **T** [Cadmium telluride photovoltaic radiation detector](#)
- 3422 [4,241,592](#) **T** [Cryostat for borehole sonde employing semiconductor detector](#)
- 3423 [4,241,423](#) **T** [Optical memory with injection laser as light source and detector](#)
- 3424 [4,241,404](#) **T** [Device for computed tomography](#)
- 3425 [4,239,972](#) **T** [Device for computed tomography](#)
- 3426 [4,238,676](#) **T** [Gamma flux responsive self-powered detector with a tubular emitter](#)
- 3427 [4,238,675](#) **T** [Optics for infrared intrusion detector](#)
- 3428 [4,237,470](#) **T** [Hyperpure germanium coaxial radiation detector](#)
- 3429 [4,237,380](#) **T** [Self-powered radiation detector with insulated inner and outer collector electrodes](#)
- 3430 [4,236,075](#) **T** [Apparatus for measuring components of liquid samples](#)
- 3431 [4,236,074](#) **T** [Radioactive height sensor for automatic level control](#)
- 3432 [4,234,240](#) **T** [Optical scanning system with unwanted reflections controlled](#)
- 3433 [4,234,102](#) **T** [Apparatus for measuring and dispensing constant weight portions of material](#)
- 3434 [4,233,514](#) **T** [Solid state radiation detector and arrays thereof](#)
- 3435 [4,233,507](#) **T** [Computer tomography table containing calibration and correlation samples](#)
- 3436 [4,233,502](#) **T** [Opto-electronic focussing error detection arrangement](#)
- 3437 [4,232,865](#) **T** [Radiation sensing mobile target game](#)
- 3438 [4,232,220](#) **T** [Background subtraction system for pulsed neutron logging of earth boreholes](#)
- 3439 [4,230,941](#) **T** [Corrector lens](#)
- 3440 [4,229,733](#) **T** [Exposure detecting device](#)
- 3441 [4,229,300](#) **T** [Process for the removal of radioactive iodine from a liquid, especially urine, and apparatus to carry out the process](#)
- 3442 [4,228,855](#) **T** [Method of injectivity profile logging for two phase flow](#)
- 3443 [4,228,353](#) **T** [Multiple-phase flowmeter and materials analysis apparatus and method](#)
- 3444 [4,228,350](#) **T** [Method and apparatus for measuring underground fluid flow characteristics](#)
- 3445 [4,227,815](#) **T** [Magnetic stirrer for sample container of photometric analyzer](#)
- 3446 [4,227,369](#) **T** [Control systems for apparatus](#)
- 3447 [4,227,261](#) **T** [Transmission of information by sweeping fan-shaped beams](#)
- 3448 [4,227,082](#) **T** [Detector for detecting ionizing radiation](#)
- 3449 [4,227,076](#) **T** [Optical position determining or tracking device](#)
- 3450 [4,226,536](#) **T** [Electro-optical contour measuring system](#)

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO. Title

- 3451 4,225,797 **T** Pulse generator circuit triggerable by nuclear radiation
- 3452 4,225,316 **T** Chemical agent detection method and apparatus
- 3453 4,224,519 **T** Method of improving BeO as a thermoluminescent detector
- 3454 4,223,727 **T** Method of injectivity profile logging for two phase flow
- 3455 4,223,388 **T** Scintillation camera
- 3456 4,221,961 **T** Electronic bottle inspector having particle and liquid detection capabilities
- 3457 4,221,474 **T** Photographic camera with focussing system which time-multiplexes the signals from plural photodetectors
- 3458 4,220,959 **T** Josephson tunnel junction with polycrystalline silicon, germanium or silicon-germanium alloy tunneling barrier
- 3459 4,220,860 **T** Tomographic scanner with cadmium tungstate scintillation crystals
- 3460 4,220,857 **T** Optical flame and explosion detection system and method
- 3461 4,220,851 **T** Gain stabilization for radioactivity well logging apparatus
- 3462 4,220,415 **T** Construction for photometric analyzer
- 3463 4,220,212 **T** Apparatus for monitoring the operation of well bore guns
- 3464 4,219,092 **T** Automatic guidance apparatus
- 3465 4,218,834 **T** Scoring of simulated weapons fire with sweeping fan-shaped beams
- 217,608 **T** Radiation scanning system
- 217,173 **T** Nuclear reactor inspection device

- 3468 [4,216,381](#) **T** [Structure for emission tomography scintillation camera](#)
- 3469 [4,215,275](#) **T** [Optical temperature measurement technique utilizing phosphors](#)
- 3470 [4,215,273](#) **T** [Multispectral scanner optical system](#)
- 3471 [4,215,271](#) **T** [Adjustable mirror mount for photoelectric intrusion detector](#)
- 3472 [4,214,485](#) **T** [Electro-mechanical transducer](#)
- 3473 [4,214,253](#) **T** [Radiation detector](#)
- 3474 [4,213,825](#) **T** [Apparatus for testing reactions](#)
- 3475 [4,213,050](#) **T** [Servo control for X-ray tomography](#)
- 3476 [4,211,925](#) **T** [CT Scanner with anode scan monitor](#)
- 3477 [4,210,902](#) **T** [Device for telemetering loads on power transmission line conductors](#)
- 3478 [4,210,810](#) **T** [Radiation scanning system](#)
- 3479 [4,210,807](#) **T** [Heat imaging apparatus](#)
- 3480 [4,210,805](#) **T** [Semiconductor radiation detector](#)
- 3481 [4,209,780](#) **T** [Coded aperture imaging with uniformly redundant arrays](#)
- 3482 [4,209,254](#) **T** [System for monitoring the movements of one or more point sources of luminous radiation](#)
- 3483 [4,208,966](#) **T** [Methods and apparatus for selectively operating multi-charge well bore guns](#)
- 3484 [4,208,126](#) **T** [System for detecting foreign particles or voids in electrical cable insulation and method](#)
- 3485 [4,207,518](#) **T** [Broadband radiation detector with diode elements](#)
- 3486 [4,207,467](#) **T** [Film measuring apparatus and method](#)
- 3487 [4,207,141](#) **T** [Process for controlling pulp washing systems](#)
- 3488 [4,206,454](#) **T** [Two channel optical flame detector](#)
- 3489 [4,206,443](#) **T** [Protective load disconnect unit for remote load control systems](#)
- 3490 [4,206,362](#) **T** [Medical radiographic apparatus](#)
- 3491 [4,206,361](#) **T** [Radiography](#)
- 3492 [4,206,360](#) **T** [Radiography](#)
- 3493 [4,206,359](#) **T** [Radiography](#)
- 3494 [4,206,355](#) **T** [System for monitoring the position intensity uniformity and directivity of a beam of ionizing radiation](#)
- 3495 [4,205,913](#) **T** [Determination of the partial pressure and the concentration of a gas](#)
- 3496 [4,205,230](#) **T** [Solid materials flow rate measurement](#)
- 3497 [4,203,036](#) **T** [X-ray diagnostic apparatus for producing transverse layer images](#)
- 3498 [4,203,033](#) **T** [Radiation energy calibrating system and method](#)
- 3499 [4,203,021](#) **T** [Method and apparatus for control of method parameters in energy beam welding](#)
- 3500 [4,202,246](#) **T** [Multiple co-axial optical sight and closed loop gun control system](#)

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Refine Search

SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3501 4,201,916	<u>T Ultraviolet radiation sensor for use in liquid purification system</u>
3502 4,201,915	<u>T Pneumatic infrared radiation detector having a hermetically sealed chamber and a window</u>
3503 4,201,479	<u>T Device for measuring the reflection of a plane, specularly reflecting surface</u>
3504 4,201,468	<u>T Method and apparatus for Doppler frequency modulation of radiation</u>
3505 4,200,931	<u>T Signal processing system</u>
3506 4,200,799	<u>T Tomographing device</u>
3507 4,200,491	<u>T Apparatus and method for detecting power distribution in a nuclear reactor fuel element</u>
3508 4,200,251	<u>T Device for a sight</u>
3509 4,199,953	<u>T Temperature stabilization system</u>
3510 4,199,810	<u>T Radiation hardened register file</u>
3511 4,199,687	<u>T Sheet film changer</u>
3512 4,199,682	<u>T Fire and explosion detection apparatus</u>
3513 4,199,218	<u>T Warm light reflector</u>
3514 4,198,849	<u>T Pyrometric temperature measurements in flameless atomic absorption spectroscopy</u>
3515 4,198,567	<u>T Method and apparatus for discrimination between scattered excitation radiation and low level fast decaying fluorescent radiation</u>
3516 4,198,564	<u>T Pyroelectric detector circuits and devices</u>
3517 4,197,465	<u>T X-ray table</u>

- 3518 4,197,464 **T** X-ray table with braced body
- 3519 4,197,462 **T** Position-sensitive proportional counter with low-resistance metal-wire anode
- 3520 4,197,457 **T** System for detecting foreign particles or voids in plastic material and method
- 3521 4,196,648 **T** Automatic sawmill apparatus
- 3522 4,195,269 **T** Two-way single fiber optical communication system
- 3523 4,194,634 **T** Method and apparatus for sorting radioactive material
- 3524 4,194,114 **T** Device for non-contact gauging of thickness or weight per unit area of sheet and like materials
- 3525 4,193,692 **T** Method and apparatus for the optical measurement of the concentration of a particulate in a fluid
- 3526 4,193,000 **T** Radiation detector adapted for use with a scanner
- 3527 4,192,475 **T** Method and device for stopping out interfering radiators in an optical missile-steering device
- 3528 4,191,884 **T** Determination of water saturation in subsurface earth formations adjacent well boreholes
- 3529 4,191,876 **T** Microwave oven having radiation detector
- 3530 4,190,838 **T** Radiation detector
- 3531 4,190,771 **T** Radiation detection element
- 3532 4,190,363 **T** Device for measuring concentration of a gas
- 3533 4,189,712 **T** Switch and lock activating system and method
- 3534 4,189,705 **T** Well logging system
- 3535 4,188,537 **T** Dental apparatus for x-ray diagnosis
- 3536 4,188,535 **T** Method and apparatus for monitoring density fluctuations in material flowing spirally within a hydrocyclone
- 3537 4,188,533 **T** Window transmittance tester
- 3538 4,187,026 **T** Photoacoustic method and apparatus for measuring intensity of electromagnetic radiation
- 3539 4,186,310 **T** Automatic wane detector
- 3540 4,186,306 **T** Perlite expansion density control system
- 3541 4,185,274 **T** High-speed electrooptical A/D converter
- 3542 4,184,767 **T** Frequency agile optical radar
- 3543 4,184,074 **T** Nondispersive infrared gas analysis device
- 3544 4,182,957 **T** Process for determining the fuel flow into the gasifier of a partial oxidation installation for solid, fine-grain or dust-like fuels
- 3545 4,182,954 **T** Method and apparatus for measuring material properties related to radiation attenuation
- 3546 4,182,451 **T** Container level height detector
- 3547 4,181,858 **T** Adjustable compensating device for radiographic apparatus
- 3548 4,181,850 **T** Data transmission in radiographic apparatus
- 3549 4,181,845 **T** Apparatus for tempering the weld between a tool joint connector and a drill pipe tube
- 3550 4,180,734 **T** Gas analyzer

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3551 4,180,383	<u>T Chamber holder for immobilized immunoadsorbent</u>
3552 4,179,691	<u>T Infrared intrusion detector circuit</u>
3553 4,179,664	<u>T Constant fraction signal shaping apparatus</u>
3554 4,178,729	<u>T Wall structure for a nuclear reactor containment housing</u>
3555 4,178,513	<u>T Art object analyzer</u>
3556 4,178,243	<u>T Method and apparatus for controlled dewaterizing of coal treatment underflow</u>
3557 4,177,650	<u>T Cryogenic cooling apparatus</u>
3558 4,177,382	<u>T Radiography</u>
3559 4,177,381	<u>T Gas analyzer sample cell</u>
3560 4,176,280	<u>T Tomographic x-ray apparatus for producing transverse layer images</u>
3561 4,176,173	<u>T Radiographic compositions</u>
3562 4,175,988	<u>T Melt-formed polycrystalline ceramics and dopant hosts containing phosphorus</u>
3563 4,175,230	<u>T Method and apparatus for transferring control information between two members</u>
3564 RE30,156	<u>T Sodium activated cesium iodide scintillator</u>
3565 4,174,523	<u>T Flat display device</u>
3566 4,173,777	<u>T Jet aircraft and/or missile plume simulator</u>
3567 4,172,637	<u>T Common beam aperture for dual beam spectrophotometers</u>
3568 4,172,225	<u>T Alpha particle x-ray energy analysis system</u>
3569 4,171,918	<u>T Infrared moisture measuring apparatus</u>

- 3570 [4,171,911](#) **T** [Radiometer](#)
- 3571 [4,171,476](#) **T** [Radiography](#)
- 3572 [4,170,416](#) **T** [Apparatus for analyzing coherent radiation](#)
- 3573 [4,168,435](#) **T** [Method and apparatus for tomography wherein signal profiles derived from an out-fanning beam of penetrating radiation can be reconstructed into signal profiles each corresponding with a beam of parallel incident rays](#)
- 3574 [4,168,058](#) **T** [Record member feeding device](#)
- 3575 [4,167,678](#) **T** [Method and apparatus for ascertaining the positions of film frames](#)
- 3576 [4,167,039](#) **T** [Device for measuring the distribution of the absorption of the emission of radiation in a layer of a body](#)
- 3577 [4,166,955](#) **T** [Radiation detector and method of operating the same](#)
- 3578 [4,166,216](#) **T** [Methods and apparatus for determining dynamic flow characteristics of production fluids in a well bore](#)
- 3579 [4,166,215](#) **T** [Methods and apparatus for determining dynamic flow characteristics of production fluids in a well bore](#)
- 3580 [4,166,102](#) **T** [Immobilized immunoadsorbent](#)
- 3581 [4,165,914](#) **T** [Access coupler and duplex coupler for single multimode fiber transmission line](#)
- 3582 [4,165,463](#) **T** [Radiation monitors and method for positioning](#)
- 3583 [4,165,460](#) **T** [Coal-rock interface detector](#)
- 3584 [4,164,788](#) **T** [Super-resolution imaging system](#)
- 3585 [4,161,655](#) **T** [Multi-cell detector using printed circuit board](#)
- 3586 [4,161,652](#) **T** [System for optically aiming a laser beam on to a target](#)
- 3587 [4,160,913](#) **T** [Web scanning apparatus](#)
- 3588 [4,160,906](#) **T** [Anatomically coordinated user dominated programmer for diagnostic x-ray apparatus](#)
- 3589 [4,160,672](#) **T** [Glass-ceramics for semiconductor doping](#)
- 3590 [4,160,246](#) **T** [Wireless multi-head smoke detector system](#)
- 3591 [4,159,424](#) **T** [Trapezoidal scintillator for radiation detectors](#)
- 3592 [4,159,422](#) **T** [Temperature stable displacement sensor with fine resolution](#)
- 3593 [4,158,854](#) **T** [Apparatus for scanning and processing information obtained by successively irradiating an object from a plurality of directions](#)
- 3594 [4,158,774](#) **T** [Radiation detector with improved performance characteristics](#)
- 3595 [4,158,504](#) **T** [Optical sighting devices](#)
- 3596 [4,158,136](#) **T** [Camera system employing pyroelectric effect](#)
- 3597 [4,157,559](#) **T** [Coaxial nuclear radiation detector with deep junction and radial field gradient](#)
- 3598 [4,157,472](#) **T** [X-ray body scanner for computerized tomography](#)
- 3599 [4,157,469](#) **T** [Pulsed neutron well logging apparatus having means for determining background radiation](#)
- 3600 [4,156,887](#) **T** [Heat-sensitive capacitor](#)

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[SPEC/"radiation detector" ANDNOT GOVT/Governm](#)

PAT. NO.	Title
3601 4,156,816	T Optical fire-detector
3602 4,156,812	T Pneumatic radiation detector
3603 4,156,143	T Device for measuring the concentration of a gas
3604 4,155,808	T Nuclear fuel rod inspection structure
3605 4,155,649	T Radiant energy detection system
3606 4,155,594	T Method of and apparatus for steering a mining machine
3607 4,155,010	T Process for the photo-optical measurement of the absorption behavior of solid, liquid and gaseous media
3608 4,155,007	T Radiation scanning and detection system
3609 4,154,672	T Standardization of penetrating radiation testing system
3610 4,154,537	T Product density control apparatus
3611 4,153,837	T Optical gas analyzer
3612 4,152,594	T Apparatus for the photo-optical measurement of the absorption behavior of solid, liquid and gaseous media
3613 4,151,412	T Method and apparatus for automatic spectrum scanning in a proportional counter
3614 4,151,018	T Drill pipe manufacture
3615 4,150,399	T Apparatus for reading a record carrier with an optical information structure
3616 4,150,342	T Method and apparatus for automatically reacquiring a predetermined output radiation frequency in a tunable laser system despite momentary perturbations of laser oscillation

- 3617 4,149,686 **T** Method and apparatus for guiding a rotating moving body
- 3618 4,149,249 **T** Apparatus and method for reconstructing data
- 3619 4,149,248 **T** Apparatus and method for reconstructing data
- 3620 4,149,247 **T** Tomographic apparatus and method for reconstructing planar slices from non-absorbed and non-scattered radiation
- 3621 4,147,933 **T** Solid-state device for detecting and locating the points of impact of ionizing radiation
- 3622 4,147,618 **T** Method and apparatus for measuring product contents
- 3623 4,147,587 **T** Method for detecting the failure of nuclear fuel elements
- 3624 4,146,904 **T** Radiation detector
- 3625 4,146,795 **T** Flexible cable control and take-up mechanism
- 3626 4,146,794 **T** Tomometry system having provisions for selectively adjusting the format of a displayed picture
- 3627 4,146,791 **T** Method and measuring device for testing the support and or covering of an oil or gas pipeline
- 3628 4,144,570 **T** Method of and device for measuring the distribution of a radiation in a plane of a body
- 3629 4,144,461 **T** Method and apparatus for assay and storage of radioactive solutions
- 3630 4,143,274 **T** Detector and dosimeter for neutrons and other radiation
- 3631 4,143,266 **T** Method and device for detecting radiatons
- 3632 4,142,706 **T** Automatic sample changer having planar transport surface
- 3633 4,142,198 **T** Monolithic extrinsic silicon infrared detectors with an improved charge collection structure
- 3634 4,141,738 **T** Melt-formed polycrystalline ceramics and dopant hosts containing phosphorus
- 3635 4,141,348 **T** Pressure sensor apparatus for non-invasively communicating pressure inside a body to the exterior thereof
- 3636 4,140,912 **T** Atmospheric radon monitor
- 3637 4,140,909 **T** Radiation detector
- 3638 4,140,902 **T** Device for measurement of hair-like particulate material
- 3639 4,140,220 **T** Color recognition system
- 3640 4,137,455 **T** Medical radiographic apparatus with means for notating detector ring
- 3641 4,137,452 **T** Method of measuring horizontal fluid flow in cased off subsurface formations with manganese compensation
- 3642 4,137,028 **T** Apparatus for the extrusion of tubular bodies of synthetic-resin material
- 3643 4,136,928 **T** Optical integrated circuit including junction laser with oblique mirror
- 3644 4,136,284 **T** Apparatus for examining a body by means of penetrating radiation
- 3645 4,136,281 **T** Energy fluence meter for X-rays
- 3646 4,135,207 **T** Apparatus for reading an optical radiation-reflecting record carrier including a narrow focus control beam
- 3647 4,135,091 **T** Diagnostic x-ray imaging system
- 3648 4,135,090 **T** Liquid ionizing radiation detector
- 3649 4,135,089 **T** Method of and apparatus for producing images for stereoscopic viewing of annihilation radiation sources

3650 4,132,894 **T** Monitor of the concentration of particles of dense radioactive materials in a stream of air

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3651 4,131,794	T Fluorescent X-ray spectrometer
3652 4,130,892	T Radiation hard memory cell and array thereof
3653 4,130,757	T Apparatus for microscopically viewing a specimen while detecting radiation particles therefrom
3654 4,129,463	T Polycrystalline silicon semiconducting material by nuclear transmutation doping
3655 4,128,772	T Generation of tunable far-infrared radiation
3656 4,128,681	T Method for producing an InSb thin film element
3657 4,127,194	T Device for sorting mail according to zip codes
3658 4,126,787	T Radiography
3659 4,126,783	T Radiation imaging system
3660 4,126,669	T Diagnostic agent
3661 4,126,396	T Device for the non-dispersive optical determination of the concentration of gas and smoke components
3662 4,126,017	T Method of refrigeration and refrigeration apparatus
3663 4,125,777	T Radiation emitter-detector package
3664 4,125,350	T Mechanical die adjustment mechanism
3665 4,124,799	T Arrangement for examining a body with ionizing radiation
3666 4,124,269	T Scanning system with improved radiation energy collecting capabilities
3667 4,123,659	T Radiography

- 3668 [4,121,098](#) **T** [Radiation analysis apparatus and method utilizing multi-channel pulse peak voltage discriminator](#)
- 3669 [4,120,592](#) **T** [Multiplex optical analyzer apparatus](#)
- 3670 [4,120,200](#) **T** [Method and device for pyrometric temperature measurements](#)
- 3671 [4,119,949](#) **T** [Fire detector utilizing two bandwidths of radiation](#)
- 3672 [4,119,853](#) **T** [Multicell X-ray detector](#)
- 3673 [4,119,852](#) **T** [Solid detector for ionizing radiation](#)
- 3674 [4,119,847](#) **T** [Calibrator for radioactivity well logging tools](#)
- 3675 [4,118,734](#) **T** [Optical videodisc with variable width tracks](#)
- 3676 [4,118,626](#) **T** [Gamma flux responsive self-powered radiation detector](#)
- 3677 [4,118,623](#) **T** [Continuous quality control of mined hard and soft coals](#)
- 3678 [4,117,935](#) **T** [Apparatus for and method of measuring product mass](#)
- 3679 [4,117,330](#) **T** [Gamma radiation detector](#)
- 3680 [4,115,691](#) **T** [Apparatus for identifying computerized axial tomographs](#)
- 3681 [4,114,604](#) **T** [Catheter oximeter apparatus and method](#)
- 3682 [4,114,040](#) **T** [Radiography](#)
- 3683 [4,112,397](#) **T** [X-ray tube arrangement](#)
- 3684 [4,112,301](#) **T** [Moving particles suspended in a carrier fluid through a flow channel having an input end under gas pressure](#)
- 3685 [4,111,717](#) **T** [Small-size high-performance radiation thermopile](#)
- 3686 [4,110,620](#) **T** [Fuel rod leak detector](#)
- 3687 [4,110,043](#) **T** [Apparatus for counting and classifying particles](#)
- 3688 [4,109,522](#) **T** [Method of borehole logging using passive Josephson current detector to directly determine the presence of hydrocarbons](#)
- 3689 [4,109,389](#) **T** [Shaft angle transducer](#)
- 3690 [4,108,976](#) **T** [Automated direct serum radioimmunoassay](#)
- 3691 [4,108,975](#) **T** [Radioimmunoassay system](#)
- 3692 [4,107,721](#) **T** [Phototransistor](#)
- 3693 [4,107,533](#) **T** [Apparatus for measuring a concentration of radioactivity](#)
- 3694 [4,107,531](#) **T** [X-ray body scanner using encoder for generating system controlling timing pulse train](#)
- 3695 [4,106,845](#) **T** [Infra-red scanner](#)
- 3696 [4,106,462](#) **T** [Ignition system control circuit](#)
- 3697 [4,104,524](#) **T** [Circuit arrangement for a detector for ionizing radiation](#)
- 3698 [4,104,522](#) **T** [Apparatus for measuring the weight per unit length of a cigarette rod](#)
- 3699 [4,104,026](#) **T** [Immunoassay separation technique](#)
- 3700 [4,103,174](#) **T** [Infrared source for use in an infrared gas detector](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3701 4,103,165	<u>T Neutron responsive self-powered radiation detector</u>
3702 4,103,164	<u>T Radiacmeter with null deflection system</u>
3703 4,103,148	<u>T Dynamic pulse difference circuit</u>
3704 4,102,661	<u>T Caustic ray use of the drawdown zone of an optical fiber preform to control the drawing of the fiber</u>
3705 4,102,436	<u>T Elevator system</u>
3706 4,101,768	<u>T Apparatus for computerized tomography having improved anti-scatter collimators</u>
3707 4,101,452	<u>T Lead sulfide activation process</u>
3708 4,101,219	<u>T Apparatus for calibrating an optical null spectrophotometer</u>
3709 4,099,061	<u>T Tomographic X-ray apparatus for producing transversal layer images</u>
3710 4,099,059	<u>T Tomographic apparatus for producing transverse layer images</u>
3711 4,097,747	<u>T Device for measuring absorption of radiation in a slice of a body</u>
3712 4,097,741	<u>T X-ray diagnostics system for X-ray photographs</u>
3713 4,097,740	<u>T Method and apparatus for focusing the objective lens of a scanning transmission-type corpuscular-beam microscope</u>
3714 4,097,736	<u>T Radiation energy calibrating device and method</u>
3715 4,096,389	<u>T Apparatus for minimizing radiation exposure and improving resolution in radiation imaging devices</u>
3716 4,096,387	<u>T Ultraviolet radiation detector</u>
3717 4,095,109	<u>T Radiation detector for an automatic X-ray exposure timer</u>

- 3718 [4,095,106](#) **T** [Radiation attenuation gauge with magnetically coupled source](#)
- 3719 [4,094,577](#) **T** [High-resolution, wide-field holographic lens](#)
- 3720 [4,094,268](#) **T** [Apparatus for growing HgI.sub.2 crystals](#)
- 3721 [4,093,936](#) **T** [Logging method and apparatus](#)
- 3722 [4,092,636](#) **T** [Protective alarm system for window using reflected microwave energy](#)
- 3723 [4,092,539](#) **T** [Radiation monitor](#)
- 3724 [4,092,531](#) **T** [Immersed reflector quadrant detector](#)
- 3725 [4,092,530](#) **T** [Feedback loop control system employing method and apparatus for stabilizing total loop gain and bandwidth](#)
- 3726 [4,091,289](#) **T** [Radiography](#)
- 3727 [4,091,287](#) **T** [Scanning radiology with initial scan for adjusting system so that detector means operates within its preferred range](#)
- 3728 [4,091,285](#) **T** [Traverse and rotate CT scanner having rotational step through a multiple of the fan angle](#)
- 3729 [4,091,084](#) **T** [Purification of HgI.sub.2 for nuclear detector fabrication](#)
- 3730 [4,090,945](#) **T** [Method of operating an oil shale kiln](#)
- 3731 [4,090,082](#) **T** [Circuitry for improving linearity of a counting system](#)
- 3732 [4,090,080](#) **T** [Imaging](#)
- 3733 [4,090,078](#) **T** [Method and arrangement for determining alcohol content in the breath](#)
- 3734 [4,090,070](#) **T** [Solar pointer](#)
- 3735 [4,089,429](#) **T** [Apparatus for introducing particulate material into a vessel](#)
- 3736 [4,088,887](#) **T** [Radiography method comprising determination of corrected absorption values for members of sets of mutually inclined beam paths](#)
- 3737 [4,088,886](#) **T** [Radiation thickness gauge for sheet material](#)
- 3738 [4,087,693](#) **T** [Sensors for use in nuclear reactor cores](#)
- 3739 [4,087,692](#) **T** [Radiometer](#)
- 3740 [4,087,690](#) **T** [Spurious radiation compensation in infrared analyzers](#)
- 3741 [4,087,688](#) **T** [Infrared radiation-burglary detector](#)
- 3742 [4,087,686](#) **T** [X-ray diagnostic apparatus for X-ray film photographs with an automatic exposure timer](#)
- 3743 [4,085,798](#) **T** [Method for investigating the front profile during flooding of formations](#)
- 3744 [4,085,329](#) **T** [Hard X-ray and fluorescent X-ray detection of alignment marks for precision mask alignment](#)
- 3745 [4,085,326](#) **T** [Radiation reflection method and apparatus particularly for gauging materials exhibiting broadband absorption or scattering, or similar effects](#)
- 3746 [4,085,323](#) **T** [Calibrator for radioactivity well logging tools](#)
- 3747 [4,085,006](#) **T** [Automatic cell analyzer method](#)
- 3748 [4,084,906](#) **T** [Multigas digital correlation spectrometer](#)
- 3749 [4,084,094](#) **T** [Radiographic apparatus](#)
- 3750 [4,084,093](#) **T** [Fan beam traverse-and-rotate CT scanner](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 3751 4,082,953 **T** Dental X-ray diagnostic device
- 3752 4,082,417 **T** Radiation scanning system with two reflective drums rotating about parallel axes according to an equation
- 3753 4,082,416 **T** Radiation scanning system with two scanners rotating about parallel axes
- 3754 4,081,765 **T** Method and apparatus for providing a calibrated scan for a scanning laser
- 3755 4,081,683 **T** Measuring the concentration of boron in water
- 3756 4,081,680 **T** Infrared radiation-burglary detector
- 3757 4,080,534 **T** Infrared detection and transmission apparatus
- 3758 4,080,533 **T** Gamma compensated coaxial cable
- 3759 4,079,124 **T** Method of preparing X-ray contrast media containing ores of hafnium, tantalum and tungsten
- 3760 4,078,174 **T** Neutron borehole logging correction technique
- 3761 4,075,527 **T** X-ray detector
- 3762 4,075,493 **T** Optical temperature measurement technique utilizing phosphors
- 3763 4,075,484 **T** Device for measuring radiation absorption or emission
- 3764 4,073,590 **T** Laser total reflectometer
- 3765 4,072,289 **T** Axial tomography
- 3766 4,071,771 **T** Shutters for X-ray scanners
- 3767 4,071,769 **T** Tomography system having nonconcurrent, compound axial scanning

- 3768 [4,069,420](#) **T** [Optical gas analyzer](#)
- 3769 [4,067,320](#) **T** [Arrangement for drift compensation in a gas analyzer](#)
- 3770 [4,066,903](#) **T** [Radiology](#)
- 3771 [4,066,902](#) **T** [Radiography with detector compensating means](#)
- 3772 [4,066,898](#) **T** [Method and apparatus for monitoring amount of a substance applied to a fabric](#)
- 3773 [4,066,897](#) **T** [Chemical change measuring apparatus](#)
- 3774 [4,065,672](#) **T** [Ultraviolet sensor and exposure instrument](#)
- 3775 [4,065,030](#) **T** [Apparatus for metering particles containing lignocellulose, such as wood chips or the like, which are to be provided with binders](#)
- 3776 [4,064,396](#) **T** [Dynamic linearization system for a radiation gauge](#)
- 3777 [4,064,393](#) **T** [Device for measuring radiation absorption in a section of a body](#)
- 3778 [4,063,097](#) **T** [X-ray body scanner for computerized tomography comprising inner fluid container surrounded by outer fluid container](#)
- 3779 [4,063,089](#) **T** [X-ray chemical analyzer for field applications](#)
- 3780 [4,063,074](#) **T** [Device for measuring radiation absorption or radiation emission distributions in a plane through a body](#)
- 3781 [4,061,917](#) **T** [Bolometer](#)
- 3782 [4,060,726](#) **T** [Gamma counter calibration system](#)
- 3783 [4,060,432](#) **T** [Method for manufacturing nuclear radiation detector with deep diffused junction](#)
- 3784 [4,059,763](#) **T** [Electron beam current, profile and position monitor](#)
- 3785 [4,059,760](#) **T** [Georadiological surveying for oil and gas and subsurface structure contour mapping](#)
- 3786 [4,059,685](#) **T** [Immobilized immunoabsorbent](#)
- 3787 [4,059,405](#) **T** [Method and apparatus for analysis of constituent carried in fibrous medium](#)
- 3788 [4,058,730](#) **T** [Irradiating device with an electronic accelerator](#)
- 3789 [4,058,726](#) **T** [Radiation detector](#)
- 3790 [4,057,745](#) **T** [Scanning X-ray source](#)
- 3791 [4,057,726](#) **T** [Collimator trans-axial tomographic scintillation camera](#)
- 3792 [4,057,148](#) **T** [Multiple sample support assembly and apparatus for facilitating radioimmunoassays and the like](#)
- 3793 [4,056,731](#) **T** [Reticle protective structure and radiation sensitive validation apparatus](#)
- 3794 [4,056,726](#) **T** [Coaxial gamma ray detector and method therefor](#)
- 3795 [4,055,762](#) **T** [Radon daughter dosimeter](#)
- 3796 [4,054,934](#) **T** [Solid state inverse overcurrent relay](#)
- 3797 [4,053,847](#) **T** [Self-feedback type low-noise charge sensitive amplifier](#)
- 3798 [4,053,780](#) **T** [Method for calibration of an axial tomographic scanner](#)
- 3799 [4,053,775](#) **T** [Constant flow radon gas monitor](#)
- 3800 [4,053,767](#) **T** [Method and apparatus for stabilizing signals in radioactive well logging tools](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3801 4,053,748	T <u>Techniques for determining the peak angle of response of piezoelectric crystals and other radiation-sensitive resonant devices</u>
3802 4,052,620	T <u>Method and apparatus for improved radiation detection in radiation scanning systems</u>
3803 4,052,617	T <u>Lettuce maturity gage</u>
3804 4,052,616	T <u>Infrared radiation-burglary detector</u>
3805 4,051,373	T <u>Delay line clipping in a scintillation camera system</u>
3806 4,049,970	T <u>Pulsed radiation detector system</u>
3807 4,049,966	T <u>Nuclear radiation measuring method and apparatus having blanking time inversely related to count rate</u>
3808 4,049,938	T <u>Microwave oven</u>
3809 4,047,043	T <u>Irradiation installation for ionizing radiation</u>
3810 4,047,040	T <u>Gridded ionization chamber</u>
3811 4,047,034	T <u>Automatic system for continuously calibrating a gamma camera</u>
3812 4,047,029	T <u>Self-compensating X-ray or .gamma.-ray thickness gauge</u>
3813 4,046,764	T <u>Method and apparatus for measuring the thermal neutron absorption rate in earth formations</u>
3814 4,046,229	T <u>Elevator system</u>
3815 4,045,676	T <u>Determining element concentrations in samples</u>
3816 4,045,675	T <u>Solid state radiation detector system</u>

- 3817 [4,045,177](#) **T** [Apparatus for detecting combustible gases](#)
- 3818 [D245,584](#) **T** [Radiation detector](#)
- 3819 [4,044,259](#) **T** [Method and apparatus for monitoring the flow of solids](#)
- 3820 [4,044,240](#) **T** [Tomography system having an ultra high speed processing unit](#)
- 3821 [4,043,672](#) **T** [Method and apparatus for detecting the direction of incidence of electromagnetic radiation](#)
- 3822 [4,042,826](#) **T** [Electrical cable](#)
- 3823 [4,042,811](#) **T** [Tomography system having an ultrahigh-speed processing unit](#)
- 3824 [4,042,491](#) **T** [Color recognition system](#)
- 3825 [4,041,994](#) **T** [Dose dispenser for radioactive gas](#)
- 3826 [4,041,315](#) **T** [Computerized tomography comprising laterally shifting detected beams within a rotated fan of radiation](#)
- 3827 [4,041,314](#) **T** [Detector device responsive to infrared radiation](#)
- 3828 [4,041,309](#) **T** [Background subtraction system for pulsed neutron logging of earth boreholes](#)
- 3829 [4,040,744](#) **T** [Multiple spectrum co-axial optical sight and closed loop gun control system](#)
- 3830 [4,040,739](#) **T** [Method and device for generating a signal dependent on the distance of an object in an object space](#)
- 3831 [4,039,839](#) **T** [Thorium tetrabromide scintillators and radiation detection and measurement therewith](#)
- 3832 [4,038,548](#) **T** [Level and interface detection](#)
- 3833 [4,037,920](#) **T** [Radiation scanning system with two relatively movable reflectors](#)
- 3834 [4,037,608](#) **T** [Method and apparatus for producing cigarettes with dense ends](#)
- 3835 [4,037,104](#) **T** [Dual beam X-ray thickness gauge](#)
- 3836 [4,037,099](#) **T** [Fluorescent X-ray sulfur analyzer](#)
- 3837 [4,036,763](#) **T** [Noise and drift correcting amplifier circuit for a live-scan imaging system](#)
- 3838 [4,036,557](#) **T** [Laser doppler velocimeter](#)
- 3839 [4,036,211](#) **T** [Temperature, pulse and respiration detection apparatus](#)
- 3840 [4,035,776](#) **T** [Data derandomizer for radiation imaging detection systems and method of operation](#)
- 3841 [4,035,651](#) **T** [Radiography device with circuitry to correct for photodetector sensitivity](#)
- 3842 [4,035,649](#) **T** [X-ray generator for a tomography apparatus](#)
- 3843 [4,035,647](#) **T** [Radiography](#)
- 3844 [4,035,646](#) **T** [Flow monitoring system](#)
- 3845 [4,035,645](#) **T** [Radiation monitor for an irradiation installation](#)
- 3846 [4,035,642](#) **T** [Gamma counter apparatus](#)
- 3847 [4,034,223](#) **T** [Device for measuring radiation absorption](#)
- 3848 [4,034,218](#) **T** [Focused detection logging technique](#)
- 3849 [4,033,885](#) **T** [Apparatus for collimation of radiation signals for long distance transmission and method of construction therefor](#)
- 3850 [4,033,813](#) **T** [Method of detecting leakage of reactor core components of liquid metal cooled fast reactors](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3851 4,032,784	T Method and apparatus for examining a body by a beam of X-rays or other penetrating radiation
3852 4,032,776	T Automatic optical focussing system
3853 4,031,545	T Radiant energy alarm system
3854 4,031,399	T Fluorometer
3855 4,031,395	T Radiography
3856 4,031,391	T Electron microscope including improved means for determining and correcting image drift
3857 4,031,374	T Error correction system for random access memory
3858 4,030,964	T Temperature cycling vapor deposition HgI.sub.2 crystal growth
3859 4,029,389	T Radiation scanning system
3860 4,027,161	T Minimizing wave interference effects on the measurement of thin films having specular surfaces using infrared radiation
3861 4,027,157	T Device for measuring wear by radioactive radiation
3862 4,027,074	T Process for producing ferroelectric crystalline material
3863 4,025,875	T Length controlled stabilized mode-lock Nd:YAG laser
3864 4,025,793	T Radiation detector with improved electrical interconnections
3865 4,025,792	T Filters for gas detectors
3866 4,025,788	T Radiometric analyzer
3867 4,024,560	T Pyroelectric-field effect electromagnetic radiation detector

- 3868 [4,023,599](#) **T** [Opto-electronic weft yarn detector](#)
- 3869 [4,023,093](#) **T** [Magnetic field radiation detector](#)
- 3870 [4,022,577](#) **T** [Automated radioimmunoassay](#)
- 3871 [4,021,308](#) **T** [Apparatus associated with magnetically responsive, biologically active substance for testing thereof](#)
- 3872 [4,020,695](#) **T** [Method and apparatus for measurement of surface temperature](#)
- 3873 [4,020,342](#) **T** [Earth formation salinity by comparison of inelastic and capture gamma ray spectra](#)
- 3874 [4,020,339](#) **T** [System for determining the deviation of an object from a sight line](#)
- 3875 [4,019,372](#) **T** [Chromatographic detector system](#)
- 3876 [4,018,396](#) **T** [Embedded housing for ore crusher](#)
- 3877 [4,017,732](#) **T** [Radiation scanning system](#)
- 3878 [4,017,730](#) **T** [Radiographic imaging system for high energy radiation](#)
- 3879 [4,017,145](#) **T** [Device mountable in a craft for the recording of data from a remote object](#)
- 3880 [4,016,590](#) **T** [Electromagnetic radiation detector](#)
- 3881 [4,015,592](#) **T** [Nuclear medicine system for imaging radiation](#)
- 3882 [4,015,135](#) **T** [Method and apparatus for particulate monitoring](#)
- 3883 [4,015,129](#) **T** [Position indicating control method and apparatus in radiation scanning systems](#)
- 3884 [4,015,122](#) **T** [Photo-electric object detection system](#)
- 3885 [4,015,116](#) **T** [Measurement of solar radiation](#)
- 3886 [4,014,321](#) **T** [Non-invasive glucose sensor system](#)
- 3887 [4,013,889](#) **T** [Electronic amplification](#)
- 3888 [4,013,888](#) **T** [Monitor for atmospheric pollutants](#)
- 3889 [4,013,885](#) **T** [Solar energy sun tracker](#)
- 3890 [4,013,874](#) **T** [Address decoder for use with multichannel analyzers](#)
- 3891 [4,013,260](#) **T** [Gas analyzer](#)
- 3892 [4,013,245](#) **T** [Homing projectile](#)
- 3893 [4,013,244](#) **T** [Device for controlling the power of an optical guidance beam](#)
- 3894 [4,012,636](#) **T** [Scanning gamma camera](#)
- 3895 [4,011,502](#) **T** [Logarithmic ratemeter with bistable signal comparison](#)
- 3896 [4,010,857](#) **T** [Coal conditioning system](#)
- 3897 [4,010,708](#) **T** [Differential pressure indicator including remote sensing means](#)
- 3898 [4,010,689](#) **T** [Apparatus for sensing target distance](#)
- 3899 [4,010,427](#) **T** [Laser output control system](#)
- 3900 [4,010,371](#) **T** [Method and apparatus for scanning in computerized tomography](#)

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PAT.
NO.

Title

- 3901 [4,010,369](#) [T](#) [Method for rapid particle size analysis by hydrosizing and nuclear sensing](#)
- 3902 [4,009,962](#) [T](#) [Emission spectroscopic system having compensation for background radiation](#)
- 3903 [4,009,803](#) [T](#) [Web former](#)
- 3904 [4,009,392](#) [T](#) [Radiation focus meter](#)
- 3905 [4,009,376](#) [T](#) [Method and apparatus for measuring material thickness](#)
- 3906 [4,009,005](#) [T](#) [Apparatus for radioimmunoassay with regeneration of immunadsorbent](#)
- 3907 [4,008,444](#) [T](#) [Feedback control of a laser output](#)
- 3908 [4,008,400](#) [T](#) [Transverse tomography system having multibeam orbital scanning with all beams offset from the center of orbit](#)
- 3909 [4,008,371](#) [T](#) [Imaging systems](#)
- 3910 [4,007,991](#) [T](#) [System for transmitting position information](#)
- 3911 [4,007,366](#) [T](#) [Radioactive tracer profiling system and apparatus](#)
- 3912 [4,006,359](#) [T](#) [Pipeline crawler](#)
- 3913 [4,006,358](#) [T](#) [Method and apparatus for measuring the amount of moisture that is associated with a web of moving material](#)
- 3914 [4,005,605](#) [T](#) [Remote reading infrared thermometer](#)
- 3915 [4,005,292](#) [T](#) [Mass counting of radioactivity samples](#)
- 3916 [4,004,593](#) [T](#) [Method and apparatus for classifying cigarettes or the like](#)
- 3917 [4,004,146](#) [T](#) [Infrared gas analyzing photometer with chopper designed to avoid radiation waste](#)

- 3918 [4,003,658](#) **T** [Triangular interferometric light-source tracker](#)
- 3919 [4,002,910](#) **T** [Radiology](#)
- 3920 [4,002,904](#) **T** [Simultaneous thermal neutron lifetime and boron content well log](#)
- 3921 [4,001,590](#) **T** [Radiation flux measuring device](#)
- 3922 [4,001,589](#) **T** [Radiometric analyzer with plural radiation sources and detectors](#)
- 3923 [4,001,586](#) **T** [Thick film sensor and infrared detector](#)
- 3924 [4,001,584](#) **T** [Automatic sample changer](#)
- 3925 [4,000,502](#) **T** [Solid state radiation detector and process](#)
- 3926 [4,000,036](#) **T** [Plasma control and utilization](#)
- 3927 [3,999,857](#) **T** [Refractive index detector](#)
- 3928 [3,999,069](#) **T** [Pyroelectric temperature compensated sensing device employing differential amplifier](#)
- 3929 [3,999,066](#) **T** [Tritium-in-air monitor](#)
- 3930 [3,998,668](#) **T** [Aluminum metaphosphate dopant sources](#)
- 3931 [3,998,667](#) **T** [Barium aluminoborosilicate glass-ceramics for semiconductor doping](#)
- 3932 [3,998,552](#) **T** [Instrument responsive to back-scattered or back-reflected radiation having passive system for range correction](#)
- 3933 [3,997,793](#) **T** [Apparatus and method for locating and quantifying or directing a source of ionizing radiation](#)
- 3934 [3,997,786](#) **T** [System for spectroscopic analysis of a chemical stream](#)
- 3935 [3,997,774](#) **T** [Method of increasing the signal-to-noise ratio of a time-dependent scanning signal during performance of a periodic scanning method](#)
- 3936 [3,997,762](#) **T** [Fire control system](#)
- 3937 [3,997,351](#) **T** [Glass-ceramic dopant host for vapor phase transport of B.sub.2 O.sub.3](#)
- 3938 [3,996,473](#) **T** [Pulsed neutron generator using shunt between anode and cathode](#)
- 3939 [3,996,467](#) **T** [Data acquisition in tomography](#)
- 3940 [3,995,265](#) **T** [Analogue divider with digital output for spectrophotometry](#)
- 3941 [3,994,823](#) **T** [Ceramic material and method of making](#)
- 3942 [3,994,602](#) **T** [Optical reflectance gauge and method therefor](#)
- 3943 [3,993,907](#) **T** [Camera tube with a pyro-electric target](#)
- 3944 [3,993,901](#) **T** [Radiation detecting system](#)
- 3945 [3,993,900](#) **T** [Shutter for optical detection](#)
- 3946 [3,993,047](#) **T** [Instrumentation for monitoring blood circulation](#)
- 3947 [3,992,953](#) **T** [Accelerometer using radioactive pickoff](#)
- 3948 [3,992,574](#) **T** [Opto-electronic system for determining a deviation between the actual position of a radiation-reflecting plane in an optical imaging system and the desired position of said plane](#)
- 3949 [3,992,106](#) **T** [Error cancelling scanning optical angle measurement system](#)
- 3950 [3,992,101](#) **T** [Scanning optical spectral analyzer employing plural detectors](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT. NO.	Title
3951 3,991,313	<u>T Method and apparatus for acoustically monitoring neutron flux radiation</u>
3952 3,990,820	<u>T Apparatus for discharging hot liquid material from a pressure vessel</u>
3953 3,988,587	<u>T Method and apparatus for indicating the radioactive decay products of radium in an environment</u>
3954 3,988,582	<u>T Blown film thickness gauge</u>
3955 3,988,581	<u>T Radioactive well logging system with shale (boron) compensation by gamma ray build-up</u>
3956 3,987,303	<u>T Medical-analytical gas detector</u>
3957 3,986,031	<u>T Scanning device for axial transverse tomography</u>
3958 3,986,028	<u>T Automatic gamma radiation scanning device and feed mechanism for plural sample holders</u>
3959 3,985,685	<u>T Pyroelectric materials and devices</u>
3960 3,985,318	<u>T Helicopter blade crack indicator</u>
3961 3,984,690	<u>T Circuitry for use with an ionizing-radiation detector</u>
3962 3,983,437	<u>T Electromagnetic radiation detector</u>
3963 3,983,424	<u>T Radiation detector employing acoustic surface waves</u>
3964 3,983,399	<u>T Tomography system having axial scanning</u>
3965 3,983,392	<u>T Method and apparatus for measuring incombustible content of coal mine dust using gamma-ray backscatter</u>
3966 3,983,365	<u>T Tape readers</u>

- 3967 [3,981,776](#) **T** [Magnetically responsive, biologically active substance and associated methods and apparatus](#)
- 3968 [3,981,561](#) **T** [Optically activated exciplex shutter/attenuator](#)
- 3969 [3,980,568](#) **T** [Radiation detection system](#)
- 3970 [3,979,716](#) **T** [Means and method for transmitting a high count rate pulse signal over a common well logging cable](#)
- 3971 [3,979,593](#) **T** [Detector for measuring a radioisotope tracer gas](#)
- 3972 [3,979,592](#) **T** [Large area radiographic scanner](#)
- 3973 [3,979,300](#) **T** [Three frequency modulated combination thermal neutron lifetime log and porosity](#)
- 3974 [3,979,256](#) **T** [Monitoring circuit for reactor safety systems](#)
- 3975 [3,978,987](#) **T** [Cutting of a stream of tobacco into measured weight portions](#)
- 3976 [3,977,787](#) **T** [High-resolution fourier interferometer-spectrophotopolarimeter](#)
- 3977 [3,976,885](#) **T** [Tomography system having nonconcurrent, compound axial scanning](#)
- 3978 [3,976,882](#) **T** [Invisible radiation imaging device](#)
- 3979 [3,976,878](#) **T** [Natural gamma ray spectrum analysis technique](#)
- 3980 [3,975,641](#) **T** [Low level snow precipitation gauge](#)
- 3981 [3,975,098](#) **T** [Spectrofluorimeter](#)
- 3982 [3,973,826](#) **T** [Scanning devices](#)
- 3983 [3,972,618](#) **T** [Interferometer for testing materials of different sizes](#)
- 3984 [3,972,598](#) **T** [Multifaceted mirror structure for infrared radiation detector](#)
- 3985 [3,972,583](#) **T** [Scanning devices](#)
- 3986 [3,971,956](#) **T** [Measurement of surface roughness](#)
- 3987 [3,971,940](#) **T** [Detector absorptivity measuring method and apparatus](#)
- 3988 [3,971,935](#) **T** [Two detector pulsed neutron porosity and water salinity apparatus and methods](#)
- 3989 [3,970,990](#) **T** [Adaptive imaging system](#)
- 3990 [3,970,852](#) **T** [Process and apparatus for scanning sections of radiation](#)
- 3991 [3,970,387](#) **T** [Nondispersion, two beam, infrared gas analyzer](#)
- 3992 [3,969,630](#) **T** [Method and apparatus for defining radiation-opaque pathways within shielding materials](#)
- 3993 [3,969,626](#) **T** [Method and apparatus for detecting total reduced sulfur](#)
- 3994 [3,969,576](#) **T** [Apparatus for reading a record carrier with an optical information structure](#)
- 3995 [3,969,182](#) **T** [Growth of mercuric iodide single crystals from dimethylsulfoxide](#)
- 3996 [3,968,367](#) **T** [Filter system for infrared analysis](#)
- 3997 [3,966,330](#) **T** [Phonograph record detecting arrangement](#)
- 3998 [3,966,324](#) **T** [Laser doppler anemometer](#)
- 3999 [3,965,471](#) **T** [Radiation detection system](#)
- 4000 [3,965,425](#) **T** [Electromagnetic radiation source locator](#)

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Title

- 4001 [3,965,356](#) **T** [Apparatus for measuring a predetermined characteristic of a material using two or more wavelengths of radiation](#)
- 4002 [3,965,354](#) **T** [Resistive anode image converter](#)
- 4003 [3,964,695](#) **T** [Time to intercept measuring apparatus](#)
- 4004 [3,962,000](#) **T** [Barium aluminoborosilicate glass-ceramics for semiconductor doping](#)
- 4005 [3,961,998](#) **T** [Vacuum deposition method for fabricating an epitaxial PbSnTe rectifying metal semiconductor contact photodetector](#)
- 4006 [3,961,969](#) **T** [Glass-ceramics for semiconductor doping](#)
- 4007 [3,961,194](#) **T** [Tracking and display apparatus for heat-detecting systems](#)
- 4008 [3,960,756](#) **T** [High efficiency scintillation detectors](#)
- 4009 [3,959,653](#) **T** [Fast charge digitizer and digital data acquisition system for measuring time varying radiation fields](#)
- 4010 [3,959,648](#) **T** [Dual spectra well logging system and method](#)
- 4011 [3,958,560](#) **T** [Non-invasive automatic glucose sensor system](#)
- 4012 [3,956,633](#) **T** [Radiology method and apparatus](#)
- 4013 [3,956,586](#) **T** [Method of optical scanning](#)
- 4014 [3,956,582](#) **T** [Apparatus for reading a record carrier on which information is recorded in at least one track](#)
- 4015 [3,955,880](#) **T** [Infrared radiation modulator](#)
- 4016 [3,955,292](#) **T** [Apparatus for antiaircraft gunnery practice with laser emissions](#)

- 4017 [3,955,089](#) **T** [Automatic steering of a high velocity beam of charged particles](#)
- 4018 [3,955,086](#) **T** [Radiation thickness gauge](#)
- 4019 [3,955,083](#) **T** [Interferometric device for encoding shaft angles](#)
- 4020 [3,954,336](#) **T** [Chemical analysis method and apparatus](#)
- 4021 [3,953,736](#) **T** [Method of and apparatus for measuring the thickness of objects](#)
- 4022 [3,953,667](#) **T** [Passive and/or active imaging system](#)
- 4023 [3,953,188](#) **T** [Control system for mold cooling in glass forming machine](#)
- 4024 [3,953,128](#) **T** [Process and apparatus for filament or slit size monitoring](#)
- 4025 [3,952,808](#) **T** [Fire protection systems](#)
- 4026 [3,952,196](#) **T** [Radiation detection apparatus](#)
- 4027 [3,951,609](#) **T** [Sampling apparatus](#)
- 4028 [3,951,550](#) **T** [Direction-sensing virtual aperture radiation detector](#)
- 4029 [3,950,646](#) **T** [Portable apparatus for measurement of nuclear radiation](#)
- 4030 [3,949,231](#) **T** [Infrared radiating unit for infrared analyzers](#)
- 4031 [3,949,229](#) **T** [X-ray scanning method and apparatus](#)
- 4032 [3,949,225](#) **T** [Infrared imaging apparatus](#)
- 4033 [3,949,210](#) **T** [Semiconductor gamma radiation detector](#)
- 4034 [3,947,683](#) **T** [Combination of epithermal and inelastic neutron scattering methods to locate coal and oil shale zones](#)
- 4035 [3,946,235](#) **T** [Helium resonance lamp and a leak detection system using the lamp](#)
- 4036 [3,946,226](#) **T** [Well logging method and apparatus](#)
- 4037 [3,944,945](#) **T** [Noise generator system having amplitude control](#)
- 4038 [3,944,835](#) **T** [High energy radiation detector having improved reflective backing for phosphor layer](#)
- 4039 [3,944,830](#) **T** [Method of and an apparatus for examining a sample or a material by measuring the absorption of gamma.- or x-ray radiation](#)
- 4040 [3,943,362](#) **T** [Simultaneous oxygen and silicon neutron activation well log using pulsed neutron source](#)
- 4041 [3,942,890](#) **T** [Secure active sensor](#)
- 4042 [3,942,009](#) **T** [Directional radiation detector](#)
- 4043 [3,942,003](#) **T** [Method and apparatus for the in situ analysis of marine ore concretions](#)
- 4044 [3,940,979](#) **T** [High-accuracy optical torquemeter](#)
- 4045 [3,940,599](#) **T** [Data processing arrangements](#)
- 4046 [3,940,482](#) **T** [Solubilization of the zinc salt of 1-hydroxy-2-pyridinethione](#)
- 4047 [3,940,221](#) **T** [Thickness control system for an extrusion die](#)
- 4048 [3,939,349](#) **T** [Method and device for classifying tires](#)
- 4049 [3,939,347](#) **T** [Two dimensional display of detector response](#)
- 4050 [3,939,343](#) **T** [Pulsed neutron logging system for inelastic scattering gamma rays with gain compensation](#)

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SPEC/"radiation detector" ANDNOT GOVT/Governm

PAT.
NO.

Title

- 4051 [3,939,342](#) **T** [Device for measuring an angular deviation by heterodyne detection](#)
- 4052 [3,937,964](#) **T** [Scintillation camera with second order resolution](#)
- 4053 [3,937,962](#) **T** [Correction of two beam photometer for fluid analysis](#)
- 4054 [3,937,951](#) **T** [All-sky photoelectric lightning detector apparatus](#)
- 4055 [3,937,576](#) **T** [Illumination system for an atomic absorption spectral photometer](#)
- 4056 [3,936,662](#) **T** [Interlocking system with a number of individual key elements](#)
- 4057 [3,936,646](#) **T** [Collimator kit](#)
- 4058 [3,936,639](#) **T** [Radiographic imaging system for high energy radiation](#)
- 4059 [3,936,636](#) **T** [Method of producing a representation of a planar section of a body using scanning radiology](#)
- 4060 [3,936,629](#) **T** [Horizon sensor for a satellite in geostationary orbit](#)
- 4061 [3,935,493](#) **T** [Radiation detector using double amplification](#)
- 4062 [3,935,462](#) **T** [Whole body imaging](#)
- 4063 [3,935,460](#) **T** [Processing apparatus for clear air turbulence detection](#)
- 4064 [3,934,139](#) **T** [Apparatus for measuring calorific power of hydrocarbon compounds](#)
- 4065 [3,934,138](#) **T** [Apparatus for measuring surface stress by X-ray diffraction](#)
- 4066 [3,932,762](#) **T** [Apparatus for measuring radiation angle dependence](#)
- 4067 [3,932,757](#) **T** [Apparatus for producing a visual representation of a radiographic scan](#)
- 4068 [3,932,747](#) **T** [Nonfluid-filled borehole logging apparatus](#)
- 4069 [3,931,764](#) **T** [Accelerator switch](#)
- 4070 [3,931,573](#) **T** [Radiation detector](#)

4071 3,931,521 **T** Dual spectrum infrared fire detector

4072 3,930,914 **T** THINNING SEMICONDUCTIVE SUBSTRATES

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